

VIA FEDERAL EXPRESS

December 4, 2008

Mr. Christopher J. Kanakis
New Jersey Department of Environmental Protection
P.O. Box 028
401 East State Street, 6th Floor
Trenton, New Jersey 08625-0028

**Re: Phase II Supplemental Remedial Investigation Work Plan
Standard Chlorine Chemical Company Site**

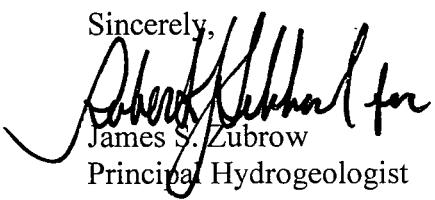
Dear Mr. Kanakis

Please find enclosed four (4) copies of the Phase II Supplemental Remedial Investigation Work Plan (SRIWP) for the Standard Chlorine Chemical Co., Inc. (SCCC) Site located in Kearny, New Jersey. This Phase II SRIWP has been prepared for the Peninsula Restoration Group ((Group) [SCCC, Beazer East, Inc. and Tierra Solutions, Inc.]) on behalf of SCCC and is submitted to address the Notice of Deficiency (NOD) received by SCCC from the New Jersey Department of Environmental Protection (NJDEP) on November 5, 2008. The Phase II SRIWP is provided within the deadline for submission specified in the NOD. To assist in your review, attached our individual responses to NJDEP comments included in the NOD.

My certification as preparer of the Phase II SRIWP is included in the front of the document. Also included is the certification statement of Margaret W. Kelly, Vice President and General Counsel of SCCC. If you have any questions regarding the Phase II SRIWP, please feel free to contact Mr. Gerry Coscia of Langan Engineering and Environmental Services, Inc. (SCCC's Technical Representative) at (201) 398-4609.

Should you require additional copies of the Phase II SRIWP in the future, please contact me at (412) 428-9387.

Sincerely,



James S. Zubrow
Principal Hydrogeologist

cc: R. Webster – Eastern Environmental Law Clinic
K. Bell-Hosea – CEA, Inc.
Ed Als – EPA Region II
M. Kelly – SCCC
E. Castro – Tierra
M. Brourman – Beazer
G. Coscia – Langan

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RESPONSE TO SCCC RI WORK PLAN NOTICE OF DEFICIENCY (10/28/08)

NJDEP Comment No. 1: *Three additional surface soil samples must be located south of proposed locations SS-5 and SS-6. In addition to analytical parameters proposed in the RIWP, all surface soil samples must also be analyzed for PAHs, including naphthalene and chlorobzenes.*

Response to Comment No. 1: The three additional samples will be collected and analysis will be as specified. Section 8.3 *Surface Soil Sampling and Analysis* will be modified as indicated by the following red-lined text:

"To supplement existing data, ~~eight eleven~~ additional surface soil samples (denoted as SC-SS-01 through SC-SS-11) will be collected ~~and analyzed~~ from the study area. Four of the locations are off-Site along the northern edge of the Seaboard Site and will supplement information collected in July 2008 during the IRAW pre-design investigation on the Seaboard Site. ~~T~~he remaining ~~four~~seven locations are located onsite to the west and south of the former lagoon and along the northern property boundary, as depicted on Figure 8-1. The samples will be collected from the 0 to 0.5 foot interval and will be analyzed in accordance with the procedures outlined in the QAPP. The samples will be analyzed for semi-volatile organic compounds (including naphthalene, other PAHs, and chlorinated benzenes), Polychlorinated Dibenzodioxins/Polychlorinated Dibenzofurans (PCDD/PCDF), PCBs, ~~and~~—total and hexavalent chromium, Oxidation Reduction Potential, and pH. All sampling locations will be marked and staked for subsequent survey.

Figure 8-1 has been modified to reflect the locations of these three additional surface soil sampling points. Tables 7-1 and 7-2 have been modified to reflect these three additional samples and the requested analyses.

NJDEP Comment No. 2: *Area of Concern 1 - Lagoon Solids: Despite previous requests, NJDEP has yet to receive written confirmation/evidence that materials in the lagoon are not a RCRA listed hazardous waste. The RIWP must propose the submission of relevant historical documentation and/or data to insure (sic) the proper disposition of these materials. Clearly, it is one of the goals of a remedial investigation to identify the source and types of contamination/waste present at a site, so that conclusions/recommendations may be presented within a forthcoming Remedial Investigation Report.*

Response to Comment No. 2: NJDEP has previously been provided written confirmation that the materials in the lagoon are not a RCRA listed hazardous waste, confirmation that is based on review of available historical documentation and information regarding the Site. However, the comment also implies that the status of the lagoon solids as a RCRA characteristic hazardous waste may also be of concern given the request for data. Accordingly, the remainder of this response addresses each of these separate yet related questions:

Status of Lagoon Materials as a RCRA Listed Hazardous Waste – NJDEP's comment appears to question whether the materials in the lagoon, as they currently exist *in situ*, may be a RCRA listed hazardous waste. Documentation and written confirmation that the lagoon materials are not a listed hazardous waste has previously been provided to NJDEP. As indicated to NJDEP in a

December 3, 2003 letter to Mr. Gary Lipsius (the former NJDEP Case Manager), historical Site operations consisted of the following:

- Refining of crude naphthalene to produce naphthalene products and disinfectants;
- Manufacturing of moth balls, crystals and flakes from refined naphthalene;
- Storage and packaging of paradichlorobenzene moth preventatives and deodorizers;
- Distillation of dichlorobenzene isomers to produce moth crystals and flakes;
- Production of 1,2,4-trichlorobenzene; and,
- Blending of orthodichlorobenzene with various materials to produce drain cleaners.

Based on review of 40 CFR 261.32 (hazardous wastes from specific sources), only one RCRA listed hazardous waste has been identified as being potentially applicable to the process operations that were historically conducted at the SCCC Site.

- K085 - Distillation or fractionation column bottoms from the production of chlorobenzenes.

The waste from this specific source was added to the K list of hazardous wastes on January 16, 1981. Information regarding historical process operations at the site is provided in the Roy F. Weston Remedial Investigation Report dated May 1993. Specific historical information of importance with respect to the listed hazardous waste issue is as follows:

- Standard Chlorine Chemical Company, Inc. (SCCC) separated dichlorobenzene isomers at the site from 1963 through 1971. SCCC separated and stored 1,2,4-trichlorobenzene at the site from 1970 through 1980. SCCC manufactured moth crystals and flakes from dichlorobenzene.

Based on this historical information, the following conclusion may be drawn regarding the question of whether listed hazardous wastes exist *in situ* in the lagoons:

All operations that could possibly have resulted in the generation of RCRA listed hazardous wastes ceased prior to the promulgation date of the relevant regulations. Therefore, by definition, RCRA listed hazardous wastes cannot have been disposed in the Site lagoons.

Furthermore, although Standard Naphthalene Products Company, Inc. manufactured naphthalene products at the Site from 1963 through 1981, none of the waste streams potentially generated from these operations are listed under 40 CFR 261.32.

Finally, while it is clear that the lagoon materials, as they currently exist *in situ*, are not listed hazardous wastes, it is unclear whether NJDEP's comment was intended to question whether the materials in the lagoon, if they were actively managed during remediation activities today, should be treated as RCRA listed hazardous waste. If that was the intent of NJDEP's comment, the answer to that inquiry also leads to the conclusion that the materials in the lagoon, if they were actively managed during remediation activities, would not be RCRA listed hazardous wastes.

This conclusion is reached through application of USEPA's guidance memorandum entitled "Management of Remediation Waste under RCRA," dated October 14, 1998 (Document No. EPA530-F-98-026). Under this 1988 Guidance if, after a good faith effort to determine if a material is a listed hazardous waste, the facility owner/operator cannot make such a determination because documentation regarding the source of the material is unavailable or inconclusive, then the owner/operator may assume the source, contaminant, or waste is not a listed hazardous waste.

Here, after a good faith review of available information, including available records, knowledgeable personnel, and information gathered from prior Site investigations, there is simply no conclusive information suggesting that the lagoon materials consist, in whole or in part, of distillation bottoms from the production of chlorobenzenes. As such, under the 1988 Guidance, it is appropriate to conclude that the lagoon materials would not trigger RCRA listed hazardous waste status if removed or actively managed during remediation activities.

Status of Lagoon Materials as a RCRA Characteristic Hazardous Waste – In response to comments on the Interim Response Action Workplan (IRAW), the scope of sampling and analysis was expanded to address waste classification issues in detail. Ten samples of the lagoon solids were obtained in May 2008 during implementation of the IRAW pre-design data collection efforts. These samples were analyzed for multiple chemical constituents including those standard analyses used to determine if a waste meets the definition of a characteristic hazardous waste, as follows:

- Toxicity Characteristic Leaching Procedure
- Corrosivity (pH)
- Reactivity (total sulfide and cyanide)
- Ignitability (flash point)

As a result of the RCRA characteristic sampling and analysis, it has been determined that the east lagoon solids would become a RCRA characteristic hazardous waste if actively managed (e.g., treated *ex situ* or otherwise removed for disposal) during remediation activities. (However, it should be noted that – whether or not the lagoon materials exhibit characteristics of a RCRA hazardous waste – through application of USEPA's AOC Policy to the east lagoon, there is no active management during remediation activities and, therefore, RCRA hazardous waste requirements will not apply to any remediation activities that involve consolidation, *in situ* treatment, or leaving the lagoon materials in place.)

Five of the six samples obtained from the east lagoon exhibited pH values below 2. Consequently the material is potentially corrosive. In addition, a few samples exhibited the presence of leachable constituents in excess of the TCLP limits, as follows:

Constituent	Sample	Concentration (mg/L)	TCLP Limit (mg/L)
East Lagoon (6 Samples)			
1,4-Dichlorobenzene	ELWC-05	9.7	7.5
Hexachlorobenzene	ELWC-05	0.22	0.13
Hexachlorobenzene	ELWC-06	0.14	0.13
Chromium	ELWC-01	6.3	5.0
Lead	ELWC-03	11.2	5.0

In addition, one sample from the west lagoon exhibited a marginal exceedance of a TCLP standard, as is shown in the following table:

Constituent	Sample	Concentration (mg/L)	TCLP Limit (mg/L)
West Lagoon (4 Samples)			
Chromium	WLWC-02	6.5	5.0

The remaining samples from the west lagoon exhibited leachable chromium concentrations ranging from 0.12 to 0.29 mg/L, far below the TCLP limit of 5 mg/L. The average leachable chromium concentration for the west lagoon waste classification samples is 1.77 mg/L and this value is considered to be more representative of the west lagoon materials. Moreover, based on this representative value, the west lagoon material, if actively managed, is considered unlikely to be a RCRA characteristic hazardous waste.

The complete analytical results for the lagoon solid samples will be provided to the NJDEP in December 2008 in support of the “like versus like” demonstration associated with application of the EPA AOC Policy. In addition, the data will also be provided to the waste classification unit as an attachment to a Waste Classification Request Form in accordance with the approved Interim Response Action Workplan (IRAW).

Based on all the foregoing, as well as the information previously provided to NJDEP, no revisions to the RI Work Plan text are believed to be necessary in response to this comment.

NJDEP Comment No. 3: *Figure 8-1, Investigation Locations - Proposed delineation borings/surface soil contingency sample locations D-4 through D-12 must be installed and collected without contingency in order to delineate hexavalent chromium contamination in this entire general area. Discussions with the NJDEP technical team assigned to the adjacent Koppers case has confirmed the presence of hexavalent chrome in the location of proposed samples SS2 (sic) and SS-3. Therefore, further delineation is warranted and must be proposed within the RIWP.*

Response to Comment No. 3: In response to this comment, the text, Figure 8-1, and Table 7-1 have been revised. Several issues are considered of importance with respect to this issue, as follows:

- DNAPL was encountered in a few barrier wall alignment borings completed during the IRAW pre-design investigation. As a result of this, a potential realignment of the barrier wall is planned. The Hudson County Improvement Authority has been apprised of this (see Attachment A). This information is directly relevant to the planned Remedial Investigation DNAPL delineation boring locations on the Seaboard Site.
- Sampling and analysis has been completed to delineate chromium impacts on the adjacent Seaboard Site. The results of this investigation are attached (Attachment B) and are directly relevant to the Remedial Investigation chromium delineation sampling and analysis program for the Seaboard Site.

- The DNAPL and chromium impacts on the adjacent Seaboard Site are spatially unrelated. The DNAPL impacts are confined to the deeper sand unit. The chromium impacts are a surface phenomenon associated with fill materials. The impacts are not laterally coincident.

Based on review of the IRAW pre-design investigation results as well as the Seaboard chromium delineation efforts, it is apparent that the impacts occur in different locations. Consequently, it is appropriate that delineation of these impacts be completed via separate sampling and analysis programs.

The locations of the DNAPL delineation borings have been revised via consideration of the barrier wall alignment boring results. The locations of chromium impact delineation samples have been revised based on consideration of all available hexavalent chromium data for the adjacent portion of the Seaboard Site. Figure A (see Attachment C) is a working drawing that was used to develop the revised DNAPL delineation boring and chromium impact sampling locations.

As shown on Figure A, ten DNAPL delineation borings (currently designated as D-4 through D-13) are still proposed for the Seaboard Site. In addition, a total of 20 additional chromium delineation borings are proposed as shown on Figure A.

Please note that the number and locations of the geotechnical borings specified in the previous version of the RIWP were based on an initial response plan specified in an outdated version of the Interim Response Action Workplan. The actual number and locations of the geotechnical borings as specified in the final IRAW will be reflected in the final version of the SCCC RIWP.

In response to this comment, the following modifications to the RIWP (pages 8-7 and 8-8) are therefore proposed as indicated by the following red-lined text:

Vertical Delineation Subsurface Soil Sampling and Analysis

To complete ~~subsurface soil characterization~~vertical delineation, samples will be obtained to ~~confirm investigate~~ the extent and ~~of~~ vertical migration of organic constituents and to supplement existing data regarding the lateral and vertical extent of chromium impacts. Sampling will be accomplished via ~~by~~ a series of twenty-seven fill unit chromium delineation borings (denoted as CR-1 through CR-~~27~~) and three varved clay (VC-1 through VC-3) borings. Samples will also be obtained from selected geotechnical borings (GT) where the borings occur in areas where additional data may be required for delineation. Figure 8-1 depicts the planned boring locations. To the extent practicable, ~~subsurface~~-soil samples will be obtained from discrete 6-inch intervals subject to constraints imposed by the volume of sample required to complete the analyses. The various types of borings to be completed are discussed in the remainder of this subsection.

Fill Unit Soil Borings (CR-1 through CR-27) - The borings will be advanced to the top of the meadow mat to accommodate the collection of samples of ~~from the~~ fill material and ~~above~~-the meadow mat. These ~~seven~~-boring locations represent the six locations proposed by Brown and Caldwell in the July 2001 Remedial Investigation Work Plan

plus one additional boring (CR-7) along the western boundary of the site as requested by NJDEP in the General Comments pertaining to the October 2004 Pre-Design Investigation Workplan as well as twenty additional borings to delineate chromium impacts on the adjacent Seaboard Site.

Borings will be advanced using a ~~by~~ hollow stem auger with continuous split spoon sampling or via ~~by~~ direct push techniques with collection of continuous two or four foot core samples. Sampling will be conducted in accordance with the FSP. Samples will be obtained from three specific depths at each of the planned locations: the surface interval (0-0.5 feet), from the depth where the water table is first encountered, and from the upper horizon of the meadow mat. The samples ~~collected~~ will be analyzed for total and hexavalent chromium, Oxidation Reduction Potential, and pH. Upon completion of sampling, each boring will be abandoned with a cement-bentonite grout, emplaced by the tremie tube method. Visually impacted drill cuttings will be containerized for subsequent management. All locations will be staked for subsequent survey.

Varved Clay Borings (VC-1 through VC-3) - Three varved clay borings will be advanced to define the vertical extent of site constituents. These borings will be advanced by hollow stem auger techniques with continuous split spoon sampling. Temporary steel casing will also be set and sealed into the meadow mat during drilling of the varved clay borings as previously described in Section 8.1.

Additionally, note that varved clay analytical samples will also be obtained from geotechnical borings GT-1, GT-2, GT-3, and GT-4, ~~GT 5, GT 6 and GT 7~~ as well as from barrier wall borings BW-2, BW-3, BW-4, and BW-5 to be installed during implementation of the IRAW. At these locations, samples from within the varved clay will be obtained for laboratory analysis of the following constituents: TCL VOCs, TCL SVOCs, TAL metals, and hexavalent chromium.

Figure 8-1 has been revised to depict the revised DNAPL delineation boring locations and the additional chromium delineation surface and subsurface soil sample locations.

Tables 7-1 and 7-2 have been modified to reflect the collection of a total of 81 chromium delineation surface and subsurface soil samples from surface soil locations SC-SS-08 through SC-SS-11 and from chromium delineation boring locations CR-1 through CR-27. The tables have also been modified to reflect changes to the geotechnical boring program.

NJDEP Comment No.4: *To satisfy the IRAW, characterization of near-shore sediment will be conducting (sic) in accordance with guidance for dredged materials/waste classification requirements (i.e., homogenization of 3-ft sediment core into one composite sample) in anticipation of onsite placement and/or offsite disposal. In accordance with previous NJDEP comments, prior to sediment excavation (as proposed within the IRAW), horizontal and vertical characterization and delineation of river sediments is required pursuant to N.J.A.C. 7-26E-4.1(b). Since Table 7-1 in this RIWP indicates surface (0-0.5') sediment sampling only, the RIWP must be revised to indicate that subsurface sediment data will also be collected to accomplish delineation requirements.*

Response to Comment No. 4: Section 9.0 OTHER SAMPLING PROPOSALS will be modified as follows as indicated by the following red-lined text:

"The nine sediment sample locations planned for the IRAW were depicted on Figure 8-1. Two depth-specific samples will be collected from each location using a hand auger. One sample will be obtained from a depth of 0.0 to 1.0 feet. The volatile organic sample aliquot for this sample will be obtained from the 0.5 to 1.0 foot interval. A second sample will be obtained from a depth of 2.0 to 3.0 feet. The purpose of these samples is to delineate both the horizontal and vertical extent of sediment impacts. It is planned that additional analyses..."

Table 7-1 has been modified to include both surface (0 to 1.0 foot depth) and subsurface (2.0 to 3.0 foot depth) river sediment sampling.

NJDEP Comment No. 5: *Ground water samples collected from the Upper Fill and Deep Sand zones must also be analyzed for total chromium. The RIWP (Table 7-1) currently indicates that samples will only be analyzed for hex-chrome.*

Response to Comment No. 5: Table 7-1 indicates that the samples will be analyzed for hexavalent chromium and Target Analyte Metals (as well as multiple other parameters). Total chromium is a Target Analyte Metal. No changes to the text or tables are required in response to this comment.

NJDEP Comment No. 6: *The RIWP (Section 8.1) identifies that a minimum of twenty-one (21) additional soil borings will be advanced to delineate the extent of recoverable DNAPL. However, Figure 8-1 does not clearly identify the sampling points as DNAPL delineation borings. The NJDEP will require that borings D-1 through D-21 must be advanced to achieve delineation of the extent of DNAPL. If these borings are not sufficient to achieve this objective, additional borings will be necessary to accomplish DNAPL delineation.*

Response to Comment No. 6: The legend and symbols of Figure 8-1 have been modified to indicate that D-1 through D-21 are all DNAPL delineation borings. Please note that the first paragraph on Page 8-3 reads as follows:

"...DNAPL delineation will address both the shallow fill and the deeper sand unit. As the investigation progresses, additional borings may be added to the program should it be determined that such borings are necessary to complete the DNAPL delineation..."

Therefore, no change to the text is considered necessary in response to this comment.

ATTACHMENT A

**NOTIFICATION LETTER
HUDSON COUNTY IMPROVEMENT AUTHORITY**

November 3, 2008

Mr. Norman Guerra, Executive Director
Hudson County Improvement Authority
574 Summit Avenue, 5th Floor
Jersey City, NJ 07306

**Re: Interim Response Action
Standard Chlorine Chemical Co., Inc. Site and Former Diamond Site
Kearny, New Jersey**

Dear Mr. Guerra:

In July 2008, Key Environmental, Inc., (KEY), working on behalf on the Peninsula Restoration Group (PRG), advanced five soil borings on the former Koppers Seaboard Site as part of pre-design studies outlined in the Interim Response Action Workplan (IRAW) for the Standard Chlorine Chemical Co., Inc. (SCCC) Site and Former Diamond Site. The purpose of these borings was to provide data to support the design of the barrier wall system proposed in the IRAW. The locations of the borings are shown on Figure 1.

At each location shown, subsurface soil samples were collected from the borings for laboratory analyses. The results of these analyses are presented in the spreadsheet attached hereto (Attachment A). The results of the analyses confirm the presence of site-related constituents in the various geologic horizons. Accordingly, the results of this investigation indicate that an extension or modification to the location of the proposed subsurface barrier wall system onto the Seaboard Site is warranted.

In conjunction with the barrier wall installation, hydraulic control wells and DNAPL recovery wells would also be necessary within the extension on the Seaboard Site. Figure 2 shows a conceptual plan view of the proposed hydraulic control and DNAPL recovery facilities, as well as the proposed subsurface barrier wall extension on to the Seaboard Site property. All groundwater removed from these wells would be directed, via below grade conveyance lines, to a treatment facility to be constructed in the southeastern portion of the SCCC property.

At this time, we are in the remedial design stage. The objective is to integrate this design work with the ongoing remedial work on the Seaboard Site and future site plans. The PRG and its consultants would like to meet with HCIA in the near future to present our conceptual plans and discuss how the remedy may be constructed in a manner that considers the interests of the stakeholders.

Mr. Norman Guerra

November 3, 2008

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I will contact you in the near future to set up a meeting. In the meantime, please feel free to contact me with any questions.

Sincerely,

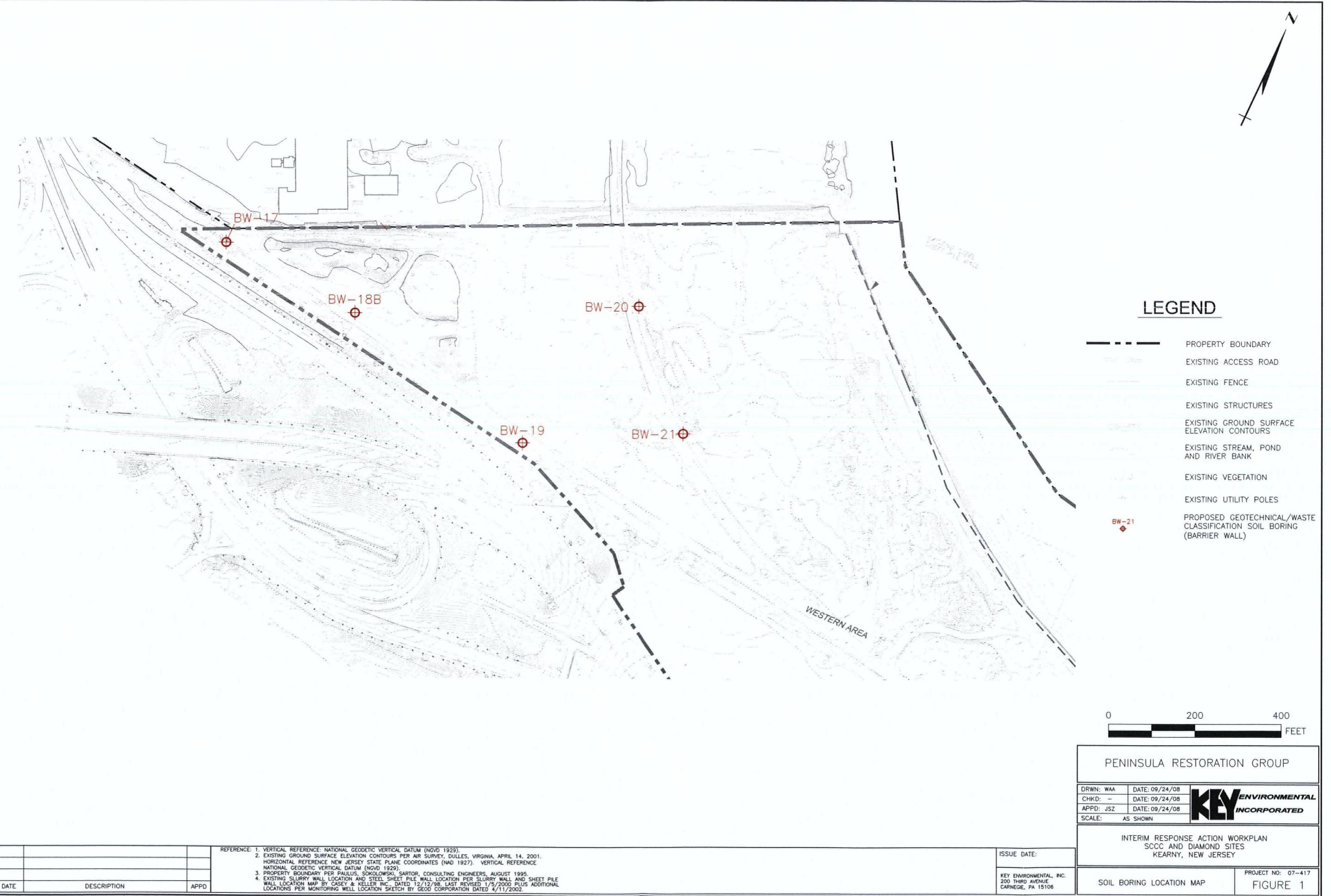
PENINSULA RESTORATION GROUP

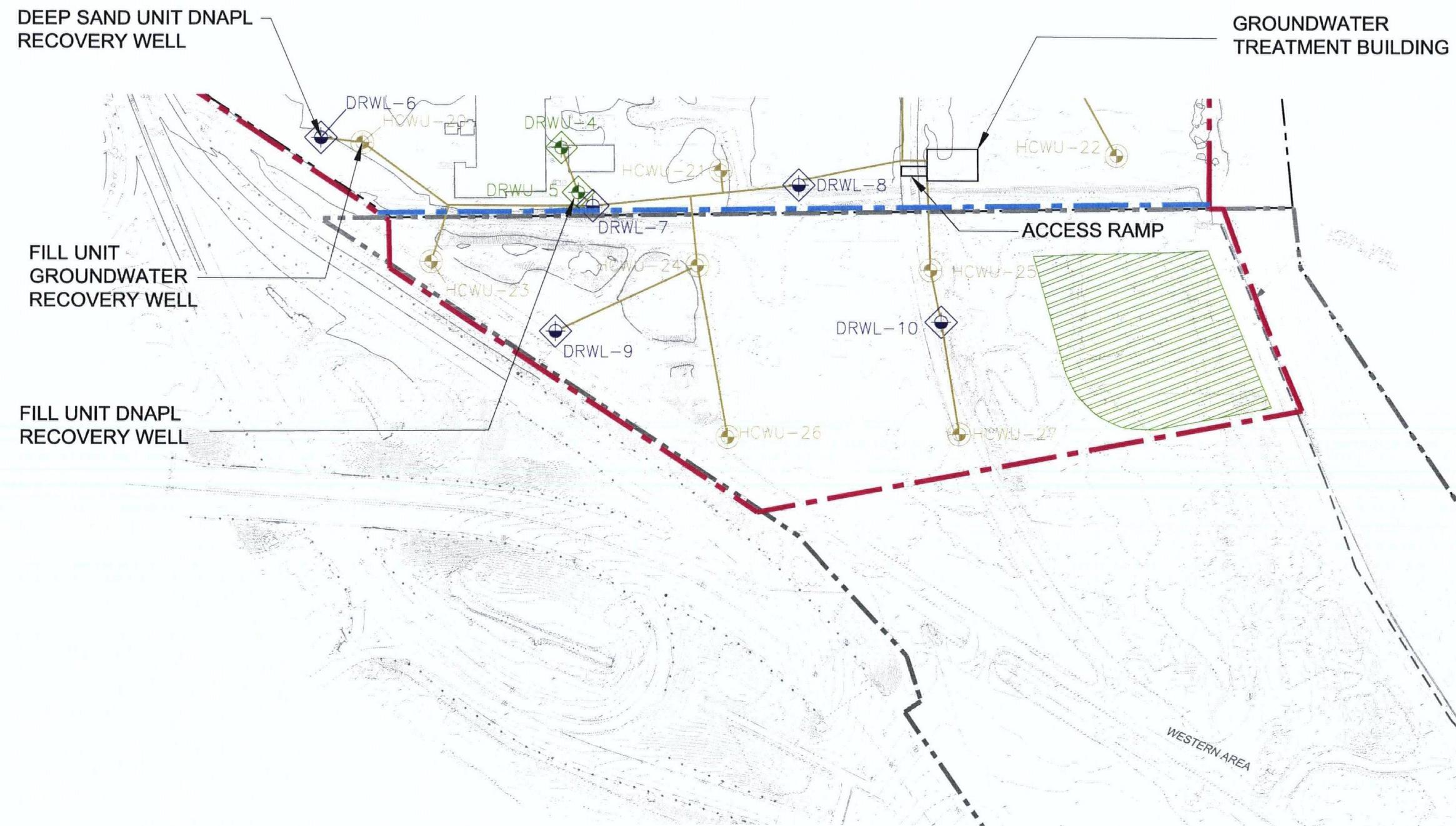


Mitchell D. Brourman
Environmental Manager

cc: C. Kanakis – NJDEP
J. Bolan – PS&S
M. Kelly – SCCC
E. Castro - Tierra
J. Zubrow - KEY

FIGURES





LEGEND

PROPERTY BOUNDARY	EXISTING ACCESS ROAD	EXISTING STREAM, POND AND RIVER BANK	HYDRAULIC CONTROL WELL LOCATION UPPER (FILL UNIT)
CURRENTLY PROPOSED SLURRY WALL LOCATION	EXISTING FENCE		
ORIGINALY PROPOSED SLURRY WALL LOCATION	EXISTING STRUCTURES		
GROUNDWATER CONVEYANCE PIPING	EXISTING VEGETATION		
	EXISTING UTILITY POLES		
	EXISTING GROUND SURFACE ELEVATION CONTOURS		

REV #	DATE	DESCRIPTION	APPD

REFERENCE: 1. VERTICAL REFERENCE: NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).
 2. EXISTING GROUND SURFACE ELEVATION CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001.
 HORIZONTAL REFERENCE: NEW JERSEY STATE PLANE COORDINATES (NAD 1927). VERTICAL REFERENCE:
 NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).
 3. PROPERTY BOUNDARY PER PAULUS, SOKOLOWSKI, SARTOR, CONSULTING ENGINEERS, AUGUST 1995.
 4. EXISTING SLURRY WALL LOCATION AND STEEL SHEET PILE WALL LOCATION PER SLURRY WALL AND SHEET PILE
 WALL LOCATION SKETCH BY CASEY & KEEFER INC., DATED 12/12/98, LAST REVISED 1/5/2000 PLUS ADDITIONAL
 LOCATIONS PER MONITORING WELL LOCATION SKETCH BY GEOID CORPORATION DATED 4/11/2002.

ISSUE DATE:
KEY ENVIRONMENTAL, INC. 200 THIRD AVENUE, CARNEGIE, PA 15106

PENINSULA RESTORATION GROUP
DRWN: WAA DATE: 09/24/08
CHKD: JSZ DATE: 09/24/08
APPD: JSZ DATE: 09/24/08
SCALE: AS SHOWN
KEY ENVIRONMENTAL INCORPORATED
INTERIM RESPONSE ACTION WORKPLAN SCCC AND DIAMOND SITES KEARNY, NEW JERSEY
HYDRAULIC CONTROL PLAN
FIGURE 2

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-17 07/23/08 Fill Primary	BW-17 07/24/08 Mat Primary	BW-17 07/24/08 Mat Duplicate	BW-17 07/24/08 Sand Primary	BW-17 07/24/08 Clay Primary
Sample Depth			0.0-7.25 ft	10.0-13.0 ft	10.0-13.0 ft	13.0-17.0 ft	22.0-24.0 ft
VOC Sample Depth			7.0-0-7.25 ft	12.0-13.0 ft	12.0-13.0 ft	16.0-17.0 ft	23.0-24.0 ft
Volatile Organics							
1,1,1-Trichloroethane	mg/Kg	4200	0.00049	U	0.058	U	0.00055
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.00072	U	0.064	U	0.00081
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.00083	U	0.061	U	0.00094
1,1,2-Trichloroethane	mg/Kg	--	0.0011	U	0.07	U	0.0012
1,1-Dichloroethane	mg/Kg	24	0.00058	U	0.055	U	0.00065
1,1-Dichloroethene	mg/Kg	150	0.00085	U	0.067	U	0.00096
1,2,4-Trichlorobenzene	mg/Kg	820	0.00088	U	0.059	U	0.00099
1,2-Dibromoethane	mg/Kg	0.04	0.00087	U	0.059	U	0.00097
1,2-Dichlorobenzene	mg/Kg	59000	0.0008	U	0.37	U	0.0009
1,2-Dichloroethane	mg/Kg	3	0.00062	U	0.062	U	0.00069
1,2-Dichloropropane	mg/Kg	5	0.00054	U	0.063	U	0.00061
1,3-Dichlorobenzene	mg/Kg	59000	0.00066	U	0.27	J	0.00074
1,4-Dichlorobenzene	mg/Kg	13	0.0011	J	0.49	U	0.00072
2-Butanone	mg/Kg	44000	0.00088	U	0.055	U	0.00099
2-Hexanone	mg/Kg	--	0.00069	U	0.045	U	0.00078
4-Methyl-2-pentanone	mg/Kg	--	0.00065	U	0.068	U	0.00073
Acetone	mg/Kg	--	0.054	U	0.068	U	0.0056
Benzene	mg/Kg	5	0.00068	U	0.059	U	0.00076
Bromodichloromethane	mg/Kg	3	0.00056	U	0.055	U	0.00063
Bromoform	mg/Kg	280	0.00044	U	0.058	U	0.0005
Bromomethane	mg/Kg	59	0.00074	U	0.072	U	0.00083
Carbon disulfide	mg/Kg	110000	0.00051	U	0.07	U	0.00058
Carbon Tetrachloride	mg/Kg	2	0.00045	U	0.051	U	0.0005
Chlorobenzene	mg/Kg	7400	0.014	U	0.13	J	0.00085
Chloroethane	mg/Kg	1100	0.0016	U	0.082	U	0.0017
Chloroform	mg/Kg	2	0.00059	U	0.06	U	0.00066
Chloromethane	mg/Kg	12	0.00085	U	0.063	U	0.00096
cis-1,2-Dichloroethene	mg/Kg	560	0.00071	U	0.061	U	0.00079
cis-1,3-Dichloropropene	mg/Kg	7	0.00068	U	0.051	U	0.00076
Cyclohexane	mg/Kg	--	0.00037	U	0.057	U	0.00042
Dibromochloromethane	mg/Kg	--	0.00071	U	0.053	U	0.0008
Dibromochloropropane	mg/Kg	8	0.00075	U	0.048	U	0.00084
Dichlorodifluoromethane	mg/Kg	230000	0.00067	U	0.073	U	0.00075
Ethylbenzene	mg/Kg	110000	0.00064	U	0.067	U	0.00072
Isopropylbenzene	mg/Kg	--	0.00068	U	0.061	U	0.00076
Methylene chloride	mg/Kg	--	0.0013	J	0.044	U	0.00076
Methyl Acetate	mg/Kg	--	0.0009	U	0.06	U	0.001
Methylcyclohexane	mg/Kg	97	0.00073	U	0.064	U	0.00082
Methyltert-butylether	mg/Kg	320	0.00075	U	0.053	U	0.00084
Styrene	mg/Kg	260	0.00053	U	0.063	U	0.0006
Tetrachloroethene	mg/Kg	5	0.00068	U	0.074	U	0.00077
Toluene	mg/Kg	91000	0.00073	U	0.045	U	0.00082
trans-1,2-Dichloroethene	mg/Kg	720	0.0006	U	0.066	U	0.00067
Trans-1,3-Dichloropropene	mg/Kg	7	0.0006	U	0.05	U	0.00067
Trichloroethene	mg/Kg	20	0.00066	U	0.064	U	0.00074
Trichlorofluoromethane	mg/Kg	340000	0.00092	U	0.092	U	0.001
Vinyl chloride	mg/Kg	2	0.00047	U	0.063	U	0.00053
Xylene (total)	mg/Kg	170000	0.0022	U	0.2	U	0.0025
Semivolatile Organics							
1,1'-Biphenyl	mg/Kg	34000	0.021	U	0.044	U	0.022
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.022	U	0.047	U	0.024
2,4,5-Trichlorophenol	mg/Kg	68000	0.031	U	0.065	U	0.033
2,4,6-Trichlorophenol	mg/Kg	74	0.03	U	0.064	U	0.036
2,4-Dichlorophenol	mg/Kg	2100	0.011	U	0.024	U	0.013
2,4-Dimethylphenol	mg/Kg	14000	0.016	U	0.034	U	0.019
2,4-Dinitrophenol	mg/Kg	1400	0.44	U	0.94	U	0.48
2,4-Dinitrotoluene	mg/Kg	3	0.019	U	0.041	U	0.023
2,6-Dinitrotoluene	mg/Kg	3	0.024	U	0.051	U	0.028
2-Chloronaphthalene	mg/Kg	--	0.022	U	0.046	U	0.025
2-Chlorophenol	mg/Kg	2200	0.019	U	0.04	U	0.022
2-Methylnaphthalene	mg/Kg	2400	0.021	U	0.044	U	0.024
2-Methylphenol	mg/Kg	3400	0.023	U	0.05	U	0.028
2-Nitroaniline	mg/Kg	23000	0.022	U	0.048	U	0.026
2-Nitrophenol	mg/Kg	--	0.03	U	0.063	U	0.035
3,3-Dichlorobenzidine	mg/Kg	4	0.084	U	0.18	U	0.091
3-Nitroaniline	mg/Kg	--	0.032	U	0.068	U	0.038
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.26	U	0.56	U	0.31
4-Bromophenylphenyl ether	mg/Kg	--	0.017	U	0.036	U	0.02
4-Chloro-3-methylphenol	mg/Kg	--	0.023	U	0.048	U	0.027
4-Chloroaniline	mg/Kg	--	0.032	U	0.068	U	0.038
4-Chlorophenyl phenyl ether	mg/Kg	--	0.019	U	0.039	U	0.022
4-Methylphenol	mg/Kg	340	0.023	U	0.05	U	0.028
4-Nitroaniline	mg/Kg	--	0.016	U	0.033	U	0.019
4-Nitrophenol	mg/Kg	--	0.029	U	0.062	U	0.034
Acenaphthene	mg/Kg	37000	0.019	U	0.041	U	0.023
Acenaphthylene	mg/Kg	300000	0.022	U	0.046	U	0.026
Acetophenone	mg/Kg	5	0.023	U	0.048	U	0.027
Anthracene	mg/Kg	30000	0.021	U	0.053	J	0.025
Atrazine	mg/Kg	2400	0.026	U	0.055	U	0.03
Benzaldehyde	mg/Kg	68000	0.04	U	0.084	U	0.047
Benzo(a)anthracene	mg/Kg	2	0.015	U	0.11	J	0.017
Benzo(a)pyrene	mg/Kg	0.2	0.012	U	0.11	J	0.014
Benzo(b)fluoranthene	mg/Kg	2	0.014	U	0.29	J	0.017
Benzo(ghi)perylene	mg/Kg	30000	0.013	U	0.058	J	0.015
Benzo(k)fluoranthene	mg/Kg	23	0.012	U	0.025	U	0.014

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-17 07/23/08 Fill Primary	BW-17 07/24/08 Mat Primary	BW-17 07/24/08 Mat Duplicate	BW-17 07/24/08 Sand Primary	BW-17 07/24/08 Clay Primary
Sample Depth			0.0-7.25 ft	10.0-13.0 ft	10.0-13.0 ft	13.0-17.0 ft	22.0-24.0 ft
VOC Sample Depth			7.0-0.7.25 ft	12.0-13.0 ft	12.0-13.0 ft	16.0-17.0 ft	23.0-24.0 ft
Semivolatile Organics (Continued)							
Bis(2-chloroethoxy)methane	mg/Kg	--	0.017	U	0.037	U	0.028
Bis(2-chloroethyl)ether	mg/Kg	2	0.0084	U	0.018	U	0.013
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.11	J	0.061	U	0.099
Butyl benzyl phthalate	mg/Kg	14000	0.03	U	0.064	U	0.048
Caprolactam	mg/Kg	340000	0.071	U	0.15	U	0.11
Carbazole	mg/Kg	96	0.015	U	0.032	U	0.024
Chrysene	mg/Kg	230	0.015	U	0.16	J	0.024
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.024	U	0.05	U	0.038
Dibenzofuran	mg/Kg	--	0.021	U	0.044	U	0.033
Diethyl phthalate	mg/Kg	550000	0.033	U	0.071	U	0.053
Dimethyl phthalate	mg/Kg	--	0.021	U	0.045	U	0.034
Di-n-butyl phthalate	mg/Kg	68000	0.062	U	0.13	U	0.099
Di-n-octyl phthalate	mg/Kg	27000	0.026	U	0.055	U	0.041
Fluoranthene	mg/Kg	24000	0.024	U	0.18	J	0.14
Fluorene	mg/Kg	24000	0.018	U	0.038	U	0.029
Hexachlorobenzene	mg/Kg	1	0.022	U	0.048	U	0.036
Hexachlorobutadiene	mg/Kg	25	0.023	U	0.048	U	0.036
Hexachlorocyclopentadiene	mg/Kg	110	0.017	U	0.036	U	0.027
Hexachloroethane	mg/Kg	140	0.017	U	0.035	U	0.027
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.013	U	0.099	J	0.074
Isophorone	mg/Kg	2000	0.021	U	0.044	U	0.033
Naphthalene	mg/Kg	17	0.018	U	0.038	U	0.029
Nitrobenzene	mg/Kg	340	0.0093	U	0.02	U	0.015
N-Nitrosodiphenylamine	mg/Kg	390	0.02	U	0.043	U	0.032
N-Nitrosodipropylamine	mg/Kg	0.3	0.0092	U	0.019	U	0.015
Pentachlorophenol	mg/Kg	10	0.028	U	0.059	U	0.044
Phenanthrene	mg/Kg	300000	0.018	U	0.038	U	0.029
Phenol	mg/Kg	210000	0.023	U	0.048	U	0.036
Pyrene	mg/Kg	18000	0.023	U	0.17	J	0.16
Polychlorinated Dioxins/Furans							
1,2,3,4,6,7,8-HxCDD	ug/Kg	--	0.012		0.00076	J	--
1,2,3,4,6,7,8-HxCDF	ug/Kg	--	0.0026	BJ	0.0066	BJ	--
1,2,3,4,7,8,9-HxCDF	ug/Kg	--	0.0056	U	0.012	U	--
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.0056	U	0.012	U	--
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.00058	QJ	0.0016	J	--
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.0056	U	0.012	U	--
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.00022	J	0.0003	QJ	--
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0056	U	0.012	U	--
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.0056	U	0.012	U	--
1,2,3,7,8-PCDD	ug/Kg	--	0.0056	U	0.00042	QJ	--
1,2,3,7,8-PCDF	ug/Kg	--	0.0056	U	0.012	U	--
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.0056	U	0.00018	QJ	--
2,3,4,7,8-PCDF	ug/Kg	--	0.0056	U	0.012	U	--
2,3,7,8-TCDD	ug/Kg	--	0.0011	U	0.0024	U	--
2,3,7,8-TCDF	ug/Kg	--	0.0011	U	0.0024	U	--
OCDD	ug/Kg	--	2.1	BJ	0.01	BJ	--
OCDF	ug/Kg	--	0.0055	BJ	0.014	BJ	--
Total HpCDD	ug/Kg	--	0.027		0.002	QJ	--
Total HpCDF	ug/Kg	--	0.0026	BJ	0.0069	QJB	--
Total HxCDD	ug/Kg	--	0.0012	QJ	0.012	U	--
Total HxCDF	ug/Kg	--	0.0012	QJ	0.0041	QJ	--
Total PeCDD	ug/Kg	--	0.0056	U	0.00042	QJ	--
Total PeCDF	ug/Kg	--	0.0056	U	0.0011	JQ	--
Total TCDD	ug/Kg	--	0.0011	U	0.00048	QJ	--
Total TCDF	ug/Kg	--	0.0011	U	0.0013	JQ	--
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)							
1,2,3,4,6,7,8-HxCDD	0.01	--	0.00012		0.000076		--
1,2,3,4,6,7,8-HxCDF	0.01	--	0.000026		0.000066		0.00034
1,2,3,4,7,8,9-HxCDF	0.01	--	--		--		0.0000095
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--
1,2,3,4,7,8-HxCDF	0.10	--	--		0.00016		0.00098
1,2,3,6,7,8-HxCDD	0.10	--	--		--		--
1,2,3,6,7,8-HxCDF	0.10	--	0.000022		--		--
1,2,3,7,8,9-HxCDD	0.10	--	--		--		--
1,2,3,7,8,9-HxCDF	0.1	--	--		--		0.000017
1,2,3,7,8-PCDD	1.00	--	--		--		--
1,2,3,7,8-PCDF	0.03	--	--		--		--
2,3,4,6,7,8-HxCDF	0.10	--	--		--		--
2,3,4,7,8-PCDF	0.30	--	--		--		--
2,3,7,8-TCDD	1.00	--	--		--		--
2,3,7,8-TCDF	0.10	--	--		--		--
OCDD	0.0003	--	0.00063		0.000003		0.00000201
OCDF	0.0003	--	0.00000165		0.0000042		0.00000213
Total 2,3,7,8-TCDD Equivalents ⁽²⁾	ug/Kg	1	0.00079965		0.0002408		0.00136981
Polychlorinated Biphenyls (Aroclors)							
Aroclor 1016	mg/Kg	1	0.0028	U	0.0059	U	0.0044
Aroclor 1221	mg/Kg	1	0.0036	U	0.0076	U	0.0057
Aroclor 1232	mg/Kg	1	0.0032	U	0.0068	U	0.0051
Aroclor 1242	mg/Kg	1	0.0031	U	0.0065	U	0.0049
Aroclor 1248	mg/Kg	1	0.0018	U	0.0038	U	0.0028
Aroclor 1254	mg/Kg	1	0.0027	U	0.0057	U	0.0043
Aroclor 1260	mg/Kg	1	0.0027	U	0.0057	U	0.0043
Aroclor 1262	mg/Kg	1	0.0041	U	0.0087	U	0.0065
Aroclor 1268	mg/Kg	1	0.0024	U	0.0051	U	0.0038

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-17 07/23/08 Fill Primary	BW-17 07/24/08 Mat Primary	BW-17 07/24/08 Mat Duplicate	BW-17 07/24/08 Sand Primary	BW-17 07/24/08 Clay Primary
		Sample Depth	0.0-7.25 ft	10.0-13.0 ft	10.0-13.0 ft	13.0-17.0 ft	22.0-24.0 ft
		VOC Sample Depth	7.0.0-7.25 ft	12.0-13.0 ft	12.0-13.0 ft	16.0-17.0 ft	23.0-24.0 ft
Metals							
Aluminum	mg/Kg	--	13300	4020	5540	4020	13600
Antimony	mg/Kg	450	0.1	U	0.35	BJ	0.17
Arsenic	mg/Kg	19	1.9		1.8	B	1.2
Barium	mg/Kg	59000	98.7		26.7	B	24.2
Beryllium	mg/Kg	140	0.85		0.16	B	0.16
Cadmium	mg/Kg	78	0.15	B	0.11	U	0.085
Calcium	mg/Kg	--	1740		3470		1870
Chromium ⁽³⁾	mg/Kg	120000	22.6		17.3		9.2
Chromium (Hexavalent) ⁽³⁾	mg/Kg	20	0.4	U	0.4	U	0.4
Cobalt	mg/Kg	590	10.1		1.4	B	1.4
Copper	mg/Kg	45000	24.6		8.2		3.7
Iron	mg/Kg	--	24500		5410		4790
Lead	mg/Kg	800	14		13.7		6.3
Magnesium	mg/Kg	--	6720		2510		1590
Manganese	mg/Kg	5900	503		151		105
Mercury	mg/Kg	65	0.012	B	0.028	B	0.022
Nickel	mg/Kg	23000	23.8		4.6	B	4.3
Potassium	mg/Kg	--	2260		216	B	235
Selenium	mg/Kg	5700	0.32	U	0.69	U	0.52
Silver	mg/Kg	5700	0.12	B	0.089	U	0.067
Sodium	mg/Kg	--	150	B	862	B	510
Thallium	mg/Kg	79	0.69	B	0.77	U	0.58
Vanadium	mg/Kg	1100	27.4		9.8	B	10.2
Zinc	mg/Kg	110000	64.8	J	14.5		14.2
Toxicity Characteristic Leaching Procedure⁽⁴⁾							
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	--
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	--
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.011	J	--
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	--
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	--
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	--
2-Butanone	mg/L	200	0.029	U	0.029	U	--
Benzene	mg/L	0.5	0.033	U	0.033	U	--
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	--
Chlorobenzene	mg/L	100	0.028	U	0.028	U	--
Chloroform	mg/L	6	0.031	U	0.031	U	--
Cresols	mg/L	200	0.0089	U	0.0089	U	--
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	--
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	--
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	--
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	--
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	--
Pyridine	mg/L	5	0.011	U	0.011	U	--
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	--
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	--
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	--
Arsenic	mg/L	5	0.14	B	0.16	B	--
Barium	mg/L	100	0.73	BJ	0.1	BJ	--
Cadmium	mg/L	1	0.0012	U	0.0012	U	--
Chromium	mg/L	5	0.0011	U	0.0062	B	--
Lead	mg/L	5	0.013	U	0.013	U	--
Mercury	mg/L	0.2	0.000055	U	0.000055	U	--
Selenium	mg/L	1	0.015	U	0.015	U	--
Silver	mg/L	5	0.0025	U	0.0025	U	--
RCRA Characteristics and Indicators							
Corrosivity	SU	2< pH <12.5	7.54		7.3		--
Cyanide	mg/Kg	23000	0.24	B	0.23	U	0.17
Total Sulfide (Reactivity)	mg/Kg	--	13.8	U	95.6		--
Ignitability	None	--	No		No		No
Oxidation Reduction Potential	mV	--	629		617		599
Percent Solids	%	--	88.6		41.9		55.2
							82
							75.3

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-18B 07/25/08 Fill Primary		BW-18B 07/28/08 Mat Primary		BW-18B 07/28/08 Sand Primary		BW-18B 07/28/08 Clay Primary		BW-19 07/28/08 Fill Primary	
Sample Depth			0.0-5.75 ft		8.0-13.0 ft		13.0-17.75 ft		22.0-24.0 ft		0.0-7.5 ft	
VOC Sample Depth			5.0-5.75 ft		12.0-13.0 ft		17.0-17.75 ft		23.0-24.0 ft		7.0-7.5 ft	
Volatile Organics												
1,1,1-Trichloroethane	mg/Kg	4200	0.11	U	0.00067	U	63	U	0.00054	U	0.0005	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.12	U	0.00098	U	71	U	0.0008	U	0.00074	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.11	U	0.0011	U	66	U	0.00092	U	0.00085	U
1,1,2-Trichloroethane	mg/Kg	--	0.13	U	0.0015	U	77	U	0.0012	U	0.0011	U
1,1-Dichloroethane	mg/Kg	24	0.1	U	0.00079	U	61	U	0.00064	U	0.00059	U
1,1-Dichloroethene	mg/Kg	150	0.13	U	0.0012	U	73	U	0.00094	U	0.00087	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.11	U	0.0012	U	210	J	0.00098	U	0.0009	U
1,2-Dibromoethane	mg/Kg	0.04	0.11	U	0.0012	U	65	U	0.00096	U	0.00088	U
1,2-Dichlorobenzene	mg/Kg	59000	0.46	J	0.09		5600		0.0014	J	0.00082	U
1,2-Dichloroethane	mg/Kg	3	0.12	U	0.00084	U	68	U	0.00068	U	0.00063	U
1,2-Dichloropropane	mg/Kg	5	0.12	U	0.00074	U	69	U	0.0006	U	0.00056	U
1,3-Dichlorobenzene	mg/Kg	59000	1.2		0.071		7300		0.0014	J	0.00067	U
1,4-Dichlorobenzene	mg/Kg	13	2.1		0.16		8400		0.0022	J	0.00065	U
2-Butanone	mg/Kg	44000	0.1	U	0.0012	U	60	U	0.00098	U	0.0009	U
2-Hexanone	mg/Kg	--	0.085	U	0.00094	U	49	U	0.00076	U	0.00071	U
4-Methyl-2-pentanone	mg/Kg	--	0.13	U	0.00089	U	54	U	0.00072	U	0.00067	U
Acetone	mg/Kg	--	0.13	U	0.0068	U	74	U	0.0055	U	0.0051	U
Benzene	mg/Kg	5	0.11	U	0.037		65	U	0.00075	U	0.00069	U
Bromodichloromethane	mg/Kg	3	0.1	U	0.00077	U	61	U	0.00062	U	0.00058	U
Bromoform	mg/Kg	280	0.11	U	0.0006	U	63	U	0.00049	U	0.00045	U
Bromomethane	mg/Kg	59	0.14	U	0.001	U	79	U	0.00082	U	0.00076	U
Carbon disulfide	mg/Kg	110000	0.13	U	0.0007	U	76	U	0.00057	U	0.0023	J
Carbon Tetrachloride	mg/Kg	2	0.096	U	0.00061	U	56	U	0.00049	U	0.00046	U
Chlorobenzene	mg/Kg	7400	1.3		0.078		69	U	0.00084	U	0.00078	U
Chloroethane	mg/Kg	1100	0.15	U	0.0021	U	90	U	0.0017	U	0.0016	U
Chloroform	mg/Kg	2	0.11	U	0.0008	U	66	U	0.00065	U	0.0006	U
Chloromethane	mg/Kg	12	0.12	U	0.0012	U	69	U	0.00094	U	0.00087	U
cis-1,2-Dichloroethene	mg/Kg	560	0.12	U	0.00096	U	67	U	0.00078	U	0.00072	U
cis-1,3-Dichloropropene	mg/Kg	7	0.096	U	0.00093	U	56	U	0.00075	U	0.0007	U
Cyclohexane	mg/Kg	--	0.11	U	0.00051	U	62	U	0.00041	U	0.00038	U
Dibromochloromethane	mg/Kg	--	0.099	U	0.00097	U	58	U	0.00079	U	0.00073	U
Dibromochloropropane	mg/Kg	8	0.09	U	0.001	U	52	U	0.00083	U	0.00077	U
Dichlorodifluoromethane	mg/Kg	230000	0.14	U	0.0067	J	79	U	0.00074	U	0.00068	U
Ethylbenzene	mg/Kg	110000	0.13	U	0.00088	U	73	U	0.00071	U	0.00066	U
Isopropylbenzene	mg/Kg	--	0.11	U	0.00093	U	67	U	0.00075	U	0.0007	U
Methylene chloride	mg/Kg	--	0.082	U	0.00092	U	48	U	0.00074	U	0.00069	U
Methyl Acetate	mg/Kg	--	0.11	U	0.0012	U	66	U	0.001	U	0.00092	U
Methylcyclohexane	mg/Kg	97	0.12	U	0.00099	U	70	U	0.0008	U	0.00074	U
Methyltert-butylether	mg/Kg	320	0.099	U	0.001	U	58	U	0.00083	U	0.00077	U
Styrene	mg/Kg	260	0.12	U	0.00073	U	69	U	0.00059	U	0.00055	U
Tetrachloroethene	mg/Kg	5	0.14	U	0.00093	U	81	U	0.00075	U	0.0007	U
Toluene	mg/Kg	91000	0.085	U	0.001	U	49	U	0.00081	U	0.00075	U
trans-1,2-Dichloroethene	mg/Kg	720	0.12	U	0.00081	U	72	U	0.00066	U	0.00061	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.093	U	0.00082	U	54	U	0.00066	U	0.00061	U
Trichloroethene	mg/Kg	20	0.12	U	0.0009	U	70	U	0.00073	U	0.00067	U
Trichlorofluoromethane	mg/Kg	340000	0.17	U	0.0013	U	100	U	0.001	U	0.00094	U
Vinyl chloride	mg/Kg	2	0.12	U	0.00064	U	69	U	0.00052	U	0.00048	U
Xylene (total)	mg/Kg	170000	0.38	U	0.0031	U	220	U	0.0025	U	0.0023	U
Semivolatile Organics												
1,1-Biphenyl	mg/Kg	34000	0.046	U	0.028	U	0.023	U	0.024	U	0.2	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.051	U	0.03	U	0.025	U	0.026	U	0.049	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.07	U	0.041	U	0.034	U	0.036	U	0.067	U
2,4,6-Trichlorophenol	mg/Kg	74	0.068	U	0.04	U	0.033	U	0.036	U	0.065	U
2,4-Dichlorophenol	mg/Kg	2100	0.025	U	0.015	U	0.16	J	0.013	U	0.024	U
2,4-Dimethylphenol	mg/Kg	14000	0.036	U	0.021	U	0.018	U	0.019	U	0.035	U
2,4-Dinitrophenol	mg/Kg	1400	1	U	0.59	U	0.49	U	0.52	U	0.96	U
2,4-Dinitrotoluene	mg/Kg	3	0.044	U	0.026	U	0.021	U	0.023	U	0.042	U
2,6-Dinitrotoluene	mg/Kg	3	0.054	U	0.032	U	0.027	U	0.02			

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-18B 07/25/08 Fill Primary		BW-18B 07/28/08 Mat Primary		BW-18B 07/28/08 Sand Primary		BW-18B 07/28/08 Clay Primary		BW-19 07/28/08 Fill Primary	
Sample Depth			0.0-5.75 ft		8.0-13.0 ft		13.0-17.75 ft		22.0-24.0 ft		0.0-7.5 ft	
VOC Sample Depth			5.0-5.75 ft		12.0-13.0 ft		17.0-17.75 ft		23.0-24.0 ft		7.0-7.5 ft	
Semivolatile Organics (Continued)												
Bis(2-chloroethoxy)methane	mg/Kg	--	0.039	U	0.023	U	0.019	U	0.021	U	0.038	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.019	U	0.011	U	0.0093	U	0.0099	U	0.018	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.065	U	0.038	U	0.13	J	0.034	U	0.062	U
Butyl benzyl phthalate	mg/Kg	14000	0.068	U	0.04	U	0.033	U	0.035	U	0.065	U
Caprolactam	mg/Kg	340000	0.16	U	0.095	U	0.078	U	0.083	U	0.15	U
Carbazole	mg/Kg	96	0.16	J	0.021	J	0.017	U	0.018	U	5.5	
Chrysene	mg/Kg	230	5.1		0.02	U	0.016	U	0.017	U	11	
Dibenz(a,h)anthracene	mg/Kg	0.2	0.63	J	0.032	U	0.026	U	0.028	U	2.6	
Dibenzofuran	mg/Kg	--	0.15	J	0.028	U	0.023	U	0.024	U	1.1	
Diethyl phthalate	mg/Kg	550000	0.075	U	0.045	U	0.037	U	0.039	U	0.072	U
Dimethyl phthalate	mg/Kg	--	0.048	U	0.028	U	0.023	U	0.025	U	0.046	U
Di-n-butyl phthalate	mg/Kg	68000	0.14	U	0.083	U	0.069	U	0.073	U	0.13	U
Di-n-octyl phthalate	mg/Kg	27000	0.059	U	0.035	U	0.029	U	0.031	U	0.057	U
Fluoranthene	mg/Kg	24000	10		0.032	U	0.027	U	0.028	U	23	
Fluorene	mg/Kg	24000	0.47	J	0.024	U	0.02	U	0.021	U	2.1	
Hexachlorobenzene	mg/Kg	1	0.051	U	0.03	U	0.025	U	0.026	U	0.049	U
Hexachlorobutadiene	mg/Kg	25	0.052	U	0.031	U	0.025	U	0.027	U	0.05	U
Hexachlorocyclopentadiene	mg/Kg	110	0.039	U	0.023	U	0.019	U	0.02	U	0.037	U
Hexachloroethane	mg/Kg	140	0.038	U	0.022	U	0.018	U	0.02	U	0.036	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	2.4		0.018	U	0.015	U	0.016	U	9.1	
Isophorone	mg/Kg	2000	0.047	U	0.028	U	0.023	U	0.025	U	0.045	U
Naphthalene	mg/Kg	17	1.3		0.076	J	0.22	J	0.021	U	2	
Nitrobenzene	mg/Kg	340	0.021	U	0.012	U	0.01	U	0.011	U	0.02	U
N-Nitrosodiphenylamine	mg/Kg	390	0.046	U	0.027	U	0.022	U	0.024	U	0.044	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.021	U	0.012	U	0.01	U	0.011	U	0.02	U
Pentachlorophenol	mg/Kg	10	0.063	U	0.037	U	0.031	U	0.033	U	0.06	U
Phenanthrene	mg/Kg	300000	6.2		0.05	J	0.02	U	0.021	U	12	
Phenol	mg/Kg	210000	0.051	U	0.03	U	0.025	U	0.027	U	0.049	U
Pyrene	mg/Kg	18000	8.2		0.031	U	0.025	U	0.027	U	16	
Polychlorinated Dioxins/Furans												
1,2,3,4,6,7,8-HxCDD	ug/Kg	--	0.4		0.0075	U	0.00032	J	--		0.04	J
1,2,3,4,6,7,8-HxCDF	ug/Kg	--	2	B	0.0034	BJ	0.28	B	--		0.36	
1,2,3,4,7,8,9-HxCDF	ug/Kg	--	0.049	J	0.0075	U	0.0099		--		0.0085	QJ
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.0037	QJ	0.0075	U	0.00015	QJ	--		0.061	U
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.49	Q	0.0011	J	0.084	Q	--		0.085	
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.013	J	0.0075	U	0.00043	QJ	--		0.0018	QJ
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.11	Q	0.0075	U	0.018	Q	--		0.02	QBJ
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.012	QJ	0.0075	U	0.00034	J	--		0.0014	QBJ
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.064	U	0.0075	U	0.00016	QJ	--		0.0017	BJ
1,2,3,7,8-PCDD	ug/Kg	--	0.0057	QJ	0.0075	U	0.00024	J	--		0.061	U
1,2,3,7,8-PCDF	ug/Kg	--	0.019	J	0.0075	U	0.0021	QJ	--		0.0058	QJ
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.033	J	0.0075	U	0.0043	J	--		0.0059	QJ
2,3,4,7,8-PCDF	ug/Kg	--	0.049	QJ	0.0075	U	0.0071	Q	--		0.01	J
2,3,7,8-TCDD	ug/Kg	--	0.013	U	0.0015	U	0.0012	U	--		0.0012	U
2,3,7,8-TCDF	ug/Kg	--	0.0066	QJ	0.0075	U	0.00041	QJ	--		0.0089	QJ
OCDD	ug/Kg	--	3.6	B	0.0046	BJ	0.038	B	--		0.44	B
OCDF	ug/Kg	--	3	B	0.011	BJ	0.51	B	--		0.66	B
Total HpCDD	ug/Kg	--	0.79		0.035	J	0.00074	QJ	--		0.086	BJ
Total HpCDF	ug/Kg	--	2.2	B	0.0038	QBJ	0.32	B	--		0.41	Q
Total HxCDD	ug/Kg	--	0.16	JQ	0.0075	U	0.00044	JQ	--		0.026	QBJ
Total HxCDF	ug/Kg	--	1.3	Q	0.0018	QJ	0.24	Q	--		0.26	QB
Total PeCDD	ug/Kg	--	0.069	QJ	0.0075	U	0.0042	JQ	--		0.014	QJ
Total PeCDF	ug/Kg	--	0.94	Q	0.0075	U	0.11	Q	--		0.14	JQB
Total TCDD	ug/Kg	--	0.053	Q	0.0015	U	0.0048	Q	--		0.022	QJ
Total TCDF	ug/Kg	--	0.88	Q	0.0075	U	0.072	Q	--		0.12	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)												
1,2,3,4,6,7,8-HxCDD	0.01	--	0.004		--		0.0000032		--		0.0004	
1,2,3,4,6,7,8-HxCDF	0.01	--	0.02		0.000034		0.0028		--		0.0036	
1,2,3,4,7,8,9-HxCDF	0.01	--	0.00049		--		0.000099		--		--	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		--		--	
1,2,3,4,7,8-HxCDF	0.10	--	--		0.00011							

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-18B 07/25/08 Fill Primary	BW-18B 07/28/08 Mat Primary	BW-18B 07/28/08 Sand Primary	BW-18B 07/28/08 Clay Primary	BW-19 07/28/08 Fill Primary
Sample Depth			0.0-5.75 ft	8.0-13.0 ft	13.0-17.75 ft	22.0-24.0 ft	0.0-7.5 ft
VOC Sample Depth			5.0-5.75 ft	12.0-13.0 ft	17.0-17.75 ft	23.0-24.0 ft	7.0-7.5 ft
Metals							
Aluminum	mg/Kg	--	6740	2920	J	4870	J
Antimony	mg/Kg	450	1.9	0.14	U	0.11	U
Arsenic	mg/Kg	19	14.7	0.72	B	2.1	
Barium	mg/Kg	59000	134	22.9	B	28.5	
Beryllium	mg/Kg	140	0.49	B	0.21	0.44	B
Cadmium	mg/Kg	78	1.3		0.071	U	0.058
Calcium	mg/Kg	--	11800	2160		621	B
Chromium ⁽³⁾	mg/Kg	120000	378	18.5		12.3	
Chromium (Hexavalent) ⁽³⁾	mg/Kg	20	0.4	U	0.4	U	0.4
Cobalt	mg/Kg	590	16.9	1.1	B	3.7	B
Copper	mg/Kg	45000	195	2.5	B	6.7	
Iron	mg/Kg	--	35100	J	4000	11800	
Lead	mg/Kg	800	213	3	JB	3.8	J
Magnesium	mg/Kg	--	5080	1540		1570	
Manganese	mg/Kg	5900	526	J	114	58.5	
Mercury	mg/Kg	65	0.74		0.014	B	0.0089
Nickel	mg/Kg	23000	65.4	3	B	8.4	J
Potassium	mg/Kg	--	515	B	237	396	B
Selenium	mg/Kg	5700	0.86		0.43	U	0.36
Silver	mg/Kg	5700	0.65		0.056	U	0.046
Sodium	mg/Kg	--	292	B	919	155	B
Thallium	mg/Kg	79	0.67	B	0.48	U	0.4
Vanadium	mg/Kg	1100	127		7.3	B	18
Zinc	mg/Kg	110000	449		8.7	J	21
Toxicity Characteristic Leaching Procedure⁽⁴⁾							
1,1-Dichloroethene	mg/L	0.7	0.035	U	0.035	U	--
1,2-Dichloroethane	mg/L	0.5	0.026	U	0.026	U	--
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	0.022	J	27
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	0.0041	U	--
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	0.0026	U	--
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	0.0028	U	--
2-Butanone	mg/L	200	0.029	U	0.029	U	--
Benzene	mg/L	0.5	0.033	U	0.033	U	--
Carbon Tetrachloride	mg/L	0.5	0.037	U	0.037	U	--
Chlorobenzene	mg/L	100	0.028	U	0.028	U	--
Chloroform	mg/L	6	0.031	U	0.031	U	--
Cresols	mg/L	200	0.0089	U	0.0089	U	--
Hexachlorobenzene	mg/L	0.13	0.0049	U	0.0049	U	--
Hexachlorobutadiene	mg/L	0.5	0.0033	U	0.0033	U	--
Hexachloroethane	mg/L	3	0.0036	U	0.0036	U	--
Nitrobenzene	mg/L	2	0.0056	U	0.0056	U	--
Pentachlorophenol	mg/L	100	0.005	U	0.005	U	--
Pyridine	mg/L	5	0.011	U	0.011	U	--
Tetrachloroethene	mg/L	0.7	0.023	U	0.023	U	--
Trichloroethene	mg/L	0.5	0.035	U	0.035	U	--
Vinyl chloride	mg/L	0.2	0.038	U	0.038	U	--
Arsenic	mg/L	5	0.15	B	0.14	B	0.2
Barium	mg/L	100	0.79	BJ	0.089	BJ	0.29
Cadmium	mg/L	1	0.0061	B	0.0012	U	--
Chromium	mg/L	5	0.027	B	0.0025	B	0.0041
Lead	mg/L	5	0.11	B	0.013	U	--
Mercury	mg/L	0.2	0.000055	U	0.000055	U	--
Selenium	mg/L	1	0.015	U	0.015	U	--
Silver	mg/L	5	0.0025	U	0.0025	U	--
RCRA Characteristics and Indicators							
Corrosivity	SU	2< pH <12.5	8.53		7.43		6.54
Cyanide	mg/Kg	23000	0.56	B	0.14	U	0.12
Total Sulfide (Reactivity)	mg/Kg	--	366		18.5	U	15.3
Ignitability	None	--	No		No	--	No
Oxidation Reduction Potential	mV	--	436		609		584
Percent Solids	%	--	78.6		66.4		80.2
							75.3
							81.8

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-19 07/29/08 Sand Primary		BW-19 07/29/08 Sand Duplicate		BW-19 07/29/08 Clay Primary		BW-20 07/24/08 Fill Primary		BW-20 07/25/08 Mat Primary	
Sample Depth			12.0-16.25 ft		12.0-16.25 ft		22.0-24.0 ft		0.0-4.0 ft		6.0-10.0 ft	
VOC Sample Depth			16.0-16.25 ft		16.0-16.25 ft		23.0-24.0 ft		2.0-3.0 ft		8.0-9.0 ft	
Volatile Organics												
1,1,1-Trichloroethane	mg/Kg	4200	0.057	U	0.06	U	0.00061	U	16	U	0.2	U
1,1,2,2-Tetrachloroethane	mg/Kg	3	0.064	U	0.067	U	0.0009	U	18	U	0.23	U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	0.06	U	0.063	U	0.001	U	17	U	0.21	U
1,1,2-Trichloroethane	mg/Kg	--	0.07	U	0.073	U	0.0013	U	19	U	0.25	U
1,1-Dichloroethane	mg/Kg	24	0.055	U	0.058	U	0.00072	U	15	U	0.2	U
1,1-Dichloroethene	mg/Kg	150	0.066	U	0.069	U	0.0011	U	18	U	0.24	U
1,2,4-Trichlorobenzene	mg/Kg	820	0.058	U	0.061	U	0.0011	U	16	U	0.21	U
1,2-Dibromoethane	mg/Kg	0.04	0.059	U	0.062	U	0.0011	U	16	U	0.21	U
1,2-Dichlorobenzene	mg/Kg	59000	0.96		0.76		0.001	U	17	U	0.5	J
1,2-Dichloroethane	mg/Kg	3	0.062	U	0.065	U	0.00077	U	17	U	0.22	U
1,2-Dichloropropane	mg/Kg	5	0.063	U	0.066	U	0.00068	U	17	U	0.22	U
1,3-Dichlorobenzene	mg/Kg	59000	0.84		0.63		0.00083	U	16	U	0.53	J
1,4-Dichlorobenzene	mg/Kg	13	1.2		0.98		0.0008	U	17	U	0.69	J
2-Butanone	mg/Kg	44000	0.055	U	0.058	U	0.0011	U	15	U	0.2	U
2-Hexanone	mg/Kg	--	0.045	U	0.047	U	0.00087	U	12	U	0.16	U
4-Methyl-2-pentanone	mg/Kg	--	0.049	U	0.051	U	0.00082	U	19	U	0.24	U
Acetone	mg/Kg	--	0.067	U	0.071	U	0.0063	U	19	U	24	
Benzene	mg/Kg	5	0.059	U	0.061	U	0.00085	U	120		1.2	
Bromodichloromethane	mg/Kg	3	0.055	U	0.058	U	0.00071	U	15	U	0.2	U
Bromoform	mg/Kg	280	0.058	U	0.06	U	0.00056	U	16	U	0.2	U
Bromomethane	mg/Kg	59	0.072	U	0.075	U	0.00093	U	20	U	0.25	U
Carbon disulfide	mg/Kg	110000	0.069	U	0.073	U	0.00064	U	19	U	0.25	U
Carbon Tetrachloride	mg/Kg	2	0.051	U	0.053	U	0.00056	U	14	U	0.18	U
Chlorobenzene	mg/Kg	7400	0.074	J	0.066	U	0.00095	U	17	U	0.22	U
Chloroethane	mg/Kg	1100	0.081	U	0.085	U	0.002	U	22	U	0.29	U
Chloroform	mg/Kg	2	0.06	U	0.063	U	0.00074	U	17	U	0.21	U
Chloromethane	mg/Kg	12	0.063	U	0.066	U	0.0011	U	17	U	0.22	U
cis-1,2-Dichloroethene	mg/Kg	560	0.061	U	0.064	U	0.00089	U	17	U	0.22	U
cis-1,3-Dichloropropene	mg/Kg	7	0.051	U	0.053	U	0.00085	U	14	U	0.18	U
Cyclohexane	mg/Kg	--	0.056	U	0.059	U	0.00047	U	16	U	0.2	U
Dibromochloromethane	mg/Kg	--	0.052	U	0.055	U	0.00089	U	14	U	0.19	U
Dibromochloropropane	mg/Kg	8	0.048	U	0.05	U	0.00094	U	13	U	0.17	U
Dichlorodifluoromethane	mg/Kg	230000	0.072	U	0.076	U	0.00084	U	20	U	0.26	U
Ethylbenzene	mg/Kg	110000	0.067	U	0.07	U	0.00081	U	18	U	0.24	U
Isopropylbenzene	mg/Kg	--	0.061	U	0.063	U	0.00085	U	17	U	0.22	U
Methylene chloride	mg/Kg	--	0.043	U	0.047	J	0.00085	U	12	U	0.15	U
Methyl Acetate	mg/Kg	--	0.06	U	0.063	U	0.0011	U	17	U	0.21	U
Methylcyclohexane	mg/Kg	97	0.063	U	0.066	U	0.00091	U	17	U	0.23	U
Methyltert-butylether	mg/Kg	320	0.052	U	0.055	U	0.00094	U	14	U	0.19	U
Styrene	mg/Kg	260	0.063	U	0.066	U	0.00067	U	17	U	0.22	U
Tetrachloroethene	mg/Kg	5	0.074	U	0.077	U	0.00086	U	20	U	0.26	U
Toluene	mg/Kg	91000	0.045	U	0.047	U	0.00092	U	75	J	0.84	J
trans-1,2-Dichloroethene	mg/Kg	720	0.066	U	0.069	U	0.00075	U	18	U	0.23	U
Trans-1,3-Dichloropropene	mg/Kg	7	0.049	U	0.052	U	0.00075	U	14	U	0.18	U
Trichloroethene	mg/Kg	20	0.063	U	0.066	U	0.00083	U	17	U	0.23	U
Trichlorofluoromethane	mg/Kg	340000	0.092	U	0.096	U	0.0012	U	25	U	0.33	U
Vinyl chloride	mg/Kg	2	0.063	U	0.066	U	0.00059	U	17	U	0.22	U
Xylene (total)	mg/Kg	170000	0.2	U	0.21	U	0.0028	U	96	J	1.3	J
Semivolatile Organics												
1,1'-Biphenyl	mg/Kg	34000	0.023	U	0.023	U	0.024	U	66		18	J
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.025	U	0.025	U	0.026	U	1.1	U	2.5	U
2,4,5-Trichlorophenol	mg/Kg	68000	0.034	U	0.034	U	0.036	U	1.6	U	3.4	U
2,4,6-Trichlorophenol	mg/Kg	74	0.033	U	0.033	U	0.035	U	1.5	U	3.3	U
2,4-Dichlorophenol	mg/Kg	2100	0.012	U	0.012	U	0.013	U	0.57	U	1.2	U
2,4-Dimethylphenol	mg/Kg	14000	0.032	J	0.046	J	0.019	U	28		9.3	J
2,4-Dinitrophenol	mg/Kg	1400	0.49	U	0.48	U	0.51	U	23	U	49	U
2,4-Dinitrotoluene	mg/Kg	3	0.021	U	0.021	U	0.022	U	0.99	U	2.1	U
2,6-Dinitrotoluene	mg/Kg	3	0.027	U	0.026	U	0.028	U	1.2	U	2.7	U
2-Chloronaphthalene	mg/Kg	--	0.024	U	0.024	U	0.025	U	1.1	U	2.4	U
2-Chlorophenol	mg/Kg	2200	0.021	U	0.021	U	0.022	U	0.96	U		

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-19 07/29/08 Sand Primary		BW-19 07/29/08 Sand Duplicate		BW-19 07/29/08 Clay Primary		BW-20 07/24/08 Fill Primary		BW-20 07/25/08 Mat Primary	
Sample Depth			12.0-16.25 ft		12.0-16.25 ft		22.0-24.0 ft		0.0-4.0 ft		6.0-10.0 ft	
VOC Sample Depth			16.0-16.25 ft		16.0-16.25 ft		23.0-24.0 ft		2.0-3.0 ft		8.0-9.0 ft	
Semivolatile Organics (Continued)												
Bis(2-chloroethoxy)methane	mg/Kg	--	0.019	U	0.019	U	0.02	U	0.89	U	1.9	U
Bis(2-chloroethyl)ether	mg/Kg	2	0.0093	U	0.0092	U	0.0097	U	0.43	U	0.93	U
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.061	J	0.49		0.033	U	1.5	U	3.2	U
Butyl benzyl phthalate	mg/Kg	14000	0.033	U	0.033	U	0.035	U	1.5	U	3.3	U
Caprolactam	mg/Kg	340000	0.078	U	0.078	U	0.082	U	3.6	U	7.8	U
Carbazole	mg/Kg	96	0.017	U	0.02	J	0.018	U	190		58	
Chrysene	mg/Kg	230	0.096	J	0.08	J	0.017	U	320		97	
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.026	U	0.026	U	0.027	U	52		13	J
Dibenzofuran	mg/Kg	--	0.023	U	0.023	U	0.024	U	350		93	
Diethyl phthalate	mg/Kg	550000	0.037	U	0.037	U	0.038	U	1.7	U	3.7	U
Dimethyl phthalate	mg/Kg	--	0.023	U	0.023	U	0.024	U	1.1	U	2.3	U
Di-n-butyl phthalate	mg/Kg	68000	0.069	U	0.068	U	0.071	U	3.2	U	6.9	U
Di-n-octyl phthalate	mg/Kg	27000	0.029	U	0.029	U	0.03	U	1.3	U	2.9	U
Fluoranthene	mg/Kg	24000	0.24	J	0.27	J	0.028	U	1300		310	
Fluorene	mg/Kg	24000	0.02	U	0.02	U	0.021	U	570		150	
Hexachlorobenzene	mg/Kg	1	0.025	U	0.025	U	0.026	U	1.1	U	2.5	U
Hexachlorobutadiene	mg/Kg	25	0.025	U	0.025	U	0.026	U	1.2	U	2.5	U
Hexachlorocyclopentadiene	mg/Kg	110	0.019	U	0.019	U	0.02	U	0.88	U	1.9	U
Hexachloroethane	mg/Kg	140	0.019	U	0.018	U	0.019	U	0.86	U	1.9	U
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.076	J	0.037	J	0.015	U	150		47	
Isophorone	mg/Kg	2000	0.023	U	0.023	U	0.024	U	1.1	U	2.3	U
Naphthalene	mg/Kg	17	0.02	U	0.02	U	0.021	U	1600		360	
Nitrobenzene	mg/Kg	340	0.01	U	0.01	U	0.011	U	0.48	U	1	U
N-Nitrosodiphenylamine	mg/Kg	390	0.022	U	0.022	U	0.023	U	1	U	2.2	U
N-Nitrosodipropylamine	mg/Kg	0.3	0.01	U	0.01	U	0.011	U	0.47	U	1	U
Pentachlorophenol	mg/Kg	10	0.031	U	0.03	U	0.032	U	1.4	U	3.1	U
Phenanthrene	mg/Kg	300000	0.086	J	0.23	J	0.021	U	1900		460	
Phenol	mg/Kg	210000	0.025	U	0.025	U	0.026	U	32		13	J
Pyrene	mg/Kg	18000	0.16	J	0.18	J	0.026	U	760		220	
Polychlorinated Dioxins/Furans												
1,2,3,4,6,7,8-HxCDD	ug/Kg	--	0.00024	J	0.0062	U	--		0.7		0.13	
1,2,3,4,6,7,8-HxCDF	ug/Kg	--	0.00094	QBJ	0.00019	QBJ	--		0.37		0.72	B
1,2,3,4,7,8,9-HxCDF	ug/Kg	--	0.0062	U	0.0062	U	--		0.036	J	0.022	J
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.0062	U	0.0062	U	--		0.019	J	0.004	J
1,2,3,4,7,8-HxCDF	ug/Kg	--	0.00025	QJ	0.0062	U	--		0.094	J	0.15	
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.0062	U	0.0062	U	--		0.032	QJ	0.0066	J
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.000086	QJ	0.0062	U	--		0.028	BJ	0.038	QJ
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0062	U	0.0062	U	--		0.034	BJ	0.0085	J
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.0062	U	0.0062	U	--		0.019	QBJ	0.1	U
1,2,3,7,8-PCDD	ug/Kg	--	0.0062	U	0.0062	U	--		0.018	QJ	0.0025	J
1,2,3,7,8-PCDF	ug/Kg	--	0.0062	U	0.0062	U	--		0.02	QJ	0.0064	QJ
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.0062	U	0.0062	U	--		0.023	J	0.016	J
2,3,4,7,8-PCDF	ug/Kg	--	0.0062	U	0.0062	U	--		0.024	J	0.019	J
2,3,7,8-TCDD	ug/Kg	--	0.0012	U	0.0012	U	--		0.073	U	0.0021	U
2,3,7,8-TCDF	ug/Kg	--	0.0012	U	0.0012	U	--		0.017	QJ	0.0096	QJ
OCDD	ug/Kg	--	0.0014	BJ	0.00081	QBJ	--		6.2	B	0.74	B
OCDF	ug/Kg	--	0.0022	QBJ	0.00086	QBJ	--		0.53	BJ	1.2	B
Total HpCDD	ug/Kg	--	0.00024	J	0.0062	U	--		1.3	B	0.44	
Total HpCDF	ug/Kg	--	0.00094	QBJ	0.00019	QBJ	--		0.73		0.87	B
Total HxCDD	ug/Kg	--	0.0062	U	0.0062	U	--		0.19	JQB	0.086	JQ
Total HxCDF	ug/Kg	--	0.00056	QJ	0.0062	U	--		0.48	JQB	0.53	Q
Total PeCDD	ug/Kg	--	0.0062	U	0.0062	U	--		0.027	QJ	0.021	QJ
Total PeCDF	ug/Kg	--	0.0062	U	0.0062	U	--		0.22	QJB	0.25	JQ
Total TCDD	ug/Kg	--	0.0012	U	0.0012	U	--		0.015	QJ	0.0093	JQ
Total TCDF	ug/Kg	--	0.0012	U	0.0062	U	--		0.063	QJ	150	Q
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)												
1,2,3,4,6,7,8-HxCDD	0.01	--	0.0000024		--		--		0.007		0.0013	
1,2,3,4,6,7,8-HxCDF	0.01	--	--		--		--		0.0037		0.0072	
1,2,3,4,7,8,9-HxCDF	0.01	--	--		--		--		0.00036		0.00022	
1,2,3,4,7,8-HxCDD	0.10	--	--		--		--		0.0019		0.0004	
1,2,3,4,7,8-HxCDF	0.10	--	--		--		--		0.0094		0.015	
1,2,3,6,7												

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-19 07/29/08 Sand Primary		BW-19 07/29/08 Sand Duplicate		BW-19 07/29/08 Clay Primary		BW-20 07/24/08 Fill Primary		BW-20 07/25/08 Mat Primary	
Sample Depth			12.0-16.25 ft		12.0-16.25 ft		22.0-24.0 ft		0.0-4.0 ft		6.0-10.0 ft	
VOC Sample Depth			16.0-16.25 ft		16.0-16.25 ft		23.0-24.0 ft		2.0-3.0 ft		8.0-9.0 ft	
Metals												
Aluminum	mg/Kg	--	3310	J	3080	J	11100	J	1740		3710	
Antimony	mg/Kg	450	0.11	U	0.11	U	0.19	BJ	0.53	BJ	2.3	B
Arsenic	mg/Kg	19	3.1		2.4		5.9		17		24	
Barium	mg/Kg	59000	15.7	B	17.3	B	74.3		42.9		40.3	B
Beryllium	mg/Kg	140	0.34	B	0.29	B	0.87		0.2	B	0.13	U
Cadmium	mg/Kg	78	0.059	U	0.059	U	0.061	U	1.5		1.3	B
Calcium	mg/Kg	--	534	B	513	B	5830		1740		4090	
Chromium ⁽³⁾	mg/Kg	120000	8.9		8.7		19.4		2650		1040	
Chromium (Hexavalent) ⁽³⁾	mg/Kg	20	0.4	U	0.4	U	0.4	U	6.4		0.4	U
Cobalt	mg/Kg	590	3.3	B	3.2	B	12		4.9	B	8.6	B
Copper	mg/Kg	45000	6.3		5.7		22.3		93.3		69.1	
Iron	mg/Kg	--	11300		10700		28000		44200		44100	J
Lead	mg/Kg	800	2.8	J	3.7	J	13.3	J	102		209	
Magnesium	mg/Kg	--	1370		1230		7210		606	B	2480	
Manganese	mg/Kg	5900	61.3		56.6		599		364		267	J
Mercury	mg/Kg	65	0.0089	U	0.0089	U	0.013	B	1.3		15.1	
Nickel	mg/Kg	23000	7.3	J	6.6	J	24.6	J	24.2		39	
Potassium	mg/Kg	--	343	B	315	B	1450		136	B	334	B
Selenium	mg/Kg	5700	0.36	U	0.36	U	0.37	U	2.7		1.6	B
Silver	mg/Kg	5700	0.046	U	0.046	U	0.18	B	0.36	B	0.62	B
Sodium	mg/Kg	--	218	B	263	B	523	B	2300		2370	
Thallium	mg/Kg	79	0.4	U	0.4	U	0.42	U	2		1.3	U
Vanadium	mg/Kg	1100	12.2		12.2		24.4		42		128	
Zinc	mg/Kg	110000	16.8	J	16.2	J	63.5	J	170		283	
Toxicity Characteristic Leaching Procedure⁽⁴⁾												
1,1-Dichloroethene	mg/L	0.7	0.035	U	--	--	--		0.035	U	0.035	U
1,2-Dichloroethane	mg/L	0.5	0.026	U	--	--	--		0.026	U	0.026	U
1,4-Dichlorobenzene	mg/L	7.5	0.0046	U	--	--	--		0.062		0.0046	U
2,4,5-Trichlorophenol	mg/L	400	0.0041	U	--	--	--		0.0041	U	0.0041	U
2,4,6-Trichlorophenol	mg/L	2	0.0026	U	--	--	--		0.0026	U	0.0026	U
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U	--	--	--		0.0028	U	0.0028	U
2-Butanone	mg/L	200	0.029	U	--	--	--		0.029	U	0.12	J
Benzene	mg/L	0.5	0.033	U	--	--	--		0.36		0.033	U
Carbon Tetrachloride	mg/L	0.5	0.037	U	--	--	--		0.037	U	0.037	U
Chlorobenzene	mg/L	100	0.028	U	--	--	--		0.028	U	0.028	U
Chloroform	mg/L	6	0.031	U	--	--	--		0.031	U	0.031	U
Cresols	mg/L	200	0.0089	U	--	--	--		1.8		0.0089	U
Hexachlorobenzene	mg/L	0.13	0.0049	U	--	--	--		0.0049	U	0.0049	U
Hexachlorobutadiene	mg/L	0.5	0.0033	U	--	--	--		0.0033	U	0.0033	U
Hexachloroethane	mg/L	3	0.0036	U	--	--	--		0.0036	U	0.0036	U
Nitrobenzene	mg/L	2	0.0056	U	--	--	--		0.0056	U	0.0056	U
Pentachlorophenol	mg/L	100	0.005	U	--	--	--		0.005	U	0.005	U
Pyridine	mg/L	5	0.011	U	--	--	--		0.011	U	0.011	U
Tetrachloroethene	mg/L	0.7	0.023	U	--	--	--		0.023	U	0.023	U
Trichloroethene	mg/L	0.5	0.035	U	--	--	--		0.035	U	0.035	U
Vinyl chloride	mg/L	0.2	0.038	U	--	--	--		0.038	U	0.038	U
Arsenic	mg/L	5	0.19	B	--	--	--	--			0.17	B
Barium	mg/L	100	0.25	BJ	--	--	--	--			0.038	BJ
Cadmium	mg/L	1	0.0012	U	--	--	--	--			0.0012	U
Chromium	mg/L	5	0.003	B	--	--	--	--			0.0062	B
Lead	mg/L	5	0.013	U	--	--	--	--			0.013	U
Mercury	mg/L	0.2	0.000055	U	--	--	--	--			0.000055	U
Selenium	mg/L	1	0.015	U	--	--	--	--			0.015	U
Silver	mg/L	5	0.0025	U	--	--	--	--			0.0025	U
RCRA Characteristics and Indicators												
Corrosivity	SU	2< pH <12.5	5.23		--	--	--		8.39		5.49	
Cyanide	mg/Kg	23000	0.7	J	0.21	BJ	--		13.4		10.6	
Total Sulfide (Reactivity)	mg/Kg	--	15.3	U	--	--	--		210		51.1	U
Ignitability	None	--	No		--	--	--		No		No	
Oxidation Reduction Potential	mV	--	492		464		485		592		455	
Percent Solids	%	--	80.1		80.1		76.9		68.4		24	

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-20 07/25/08 Sand Primary	BW-20 07/25/08 Sand Primary	BW-21 07/29/08 Fill Primary	BW-21 07/29/08 Mat Primary	BW-21 07/29/08 Sand Primary
		Sample Depth	10.0-15.25 ft	24.0-26.0 ft	0.0-6.0 ft	8.0-10.5 ft	10.5-16.0 ft
		VOC Sample Depth	15.0-15.25 ft	25.0-26.0 ft	5.0-6.0 ft	10.0-10.5 ft	15.0-16.0 ft
Volatile Organics							
1,1,1-Trichloroethane	mg/Kg	4200	23	U	0.056	U	0.00051
1,1,2,2-Tetrachloroethane	mg/Kg	3	26	U	0.063	U	0.00075
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/Kg	6	24	U	0.059	U	0.00087
1,1,2-Trichloroethane	mg/Kg	--	28	U	0.068	U	0.0011
1,1-Dichloroethane	mg/Kg	24	22	U	0.054	U	0.0006
1,1-Dichloroethene	mg/Kg	150	27	U	0.065	U	0.00089
1,2,4-Trichlorobenzene	mg/Kg	820	58	J	0.057	U	0.00092
1,2-Dibromoethane	mg/Kg	0.04	24	U	0.057	U	0.0009
1,2-Dichlorobenzene	mg/Kg	59000	2600		0.51		0.00083
1,2-Dichloroethane	mg/Kg	3	25	U	0.06	U	0.00064
1,2-Dichloropropane	mg/Kg	5	25	U	0.061	U	0.00057
1,3-Dichlorobenzene	mg/Kg	59000	2900		0.58		0.00068
1,4-Dichlorobenzene	mg/Kg	13	3400 ^b		0.66		0.00066
2-Butanone	mg/Kg	44000	22	U	0.054	U	0.00092
2-Hexanone	mg/Kg	--	18	U	0.044	U	0.00072
4-Methyl-2-pentanone	mg/Kg	--	27	U	0.066	U	0.00068
Acetone	mg/Kg	--	27	U	0.066	U	0.0052
Benzene	mg/Kg	5	24	U	0.057	U	0.0007
Bromodichloromethane	mg/Kg	3	22	U	0.054	U	0.00059
Bromoform	mg/Kg	280	23	U	0.056	U	0.00046
Bromomethane	mg/Kg	59	29	U	0.07	U	0.00077
Carbon disulfide	mg/Kg	110000	28	U	0.068	U	0.00053
Carbon Tetrachloride	mg/Kg	2	21	U	0.049	U	0.00047
Chlorobenzene	mg/Kg	7400	32	J	0.061	U	0.00079
Chloroethane	mg/Kg	1100	33	U	0.079	U	0.0016
Chloroform	mg/Kg	2	24	U	0.058	U	0.00061
Chloromethane	mg/Kg	12	25	U	0.061	U	0.00089
cis-1,2-Dichloroethene	mg/Kg	560	25	U	0.06	U	0.00073
cis-1,3-Dichloropropene	mg/Kg	7	21	U	0.05	U	0.00071
Cyclohexane	mg/Kg	--	23	U	0.055	U	0.00039
Dibromochloromethane	mg/Kg	--	21	U	0.051	U	0.00074
Dibromochloropropane	mg/Kg	8	19	U	0.046	U	0.00078
Dichlorodifluoromethane	mg/Kg	230000	29	U	0.07	U	0.00069
Ethylbenzene	mg/Kg	110000	27	U	0.065	U	0.00067
Isopropylbenzene	mg/Kg	--	25	U	0.059	U	0.00071
Methylene chloride	mg/Kg	--	18	U	0.042	U	0.0007
Methyl Acetate	mg/Kg	--	24	U	0.059	U	0.00094
Methylcyclohexane	mg/Kg	97	26	U	0.062	U	0.00076
Methyltert-butylether	mg/Kg	320	21	U	0.051	U	0.00078
Styrene	mg/Kg	260	26	U	0.061	U	0.00055
Tetrachloroethene	mg/Kg	5	30	U	0.072	U	0.00071
Toluene	mg/Kg	91000	18	U	0.044	U	0.00076
trans-1,2-Dichloroethene	mg/Kg	720	27	U	0.064	U	0.00062
Trans-1,3-Dichloropropene	mg/Kg	7	20	U	0.048	U	0.00062
Trichloroethene	mg/Kg	20	26	U	0.062	U	0.00069
Trichlorofluoromethane	mg/Kg	340000	37	U	0.089	U	0.00096
Vinyl chloride	mg/Kg	2	26	U	0.062	U	0.00049
Xylene (total)	mg/Kg	170000	81	U	0.19	U	0.0023
Semivolatile Organics							
1,1'-Biphenyl	mg/Kg	34000	0.56		0.024	U	0.11
2,2'-oxybis(1-chloropropane)	mg/Kg	--	0.024	U	0.026	U	0.055
2,4,5-Trichlorophenol	mg/Kg	68000	0.033	U	0.035	U	0.076
2,4,6-Trichlorophenol	mg/Kg	74	0.032	U	0.035	U	0.074
2,4-Dichlorophenol	mg/Kg	2100	0.29	J	0.013	U	0.027
2,4-Dimethylphenol	mg/Kg	14000	2.2		0.018	U	0.092
2,4-Dinitrophenol	mg/Kg	1400	0.47	U	0.51	U	1.1
2,4-Dinitrotoluene	mg/Kg	3	0.021	U	0.022	U	0.047
2,6-Dinitrotoluene	mg/Kg	3	0.026	U	0.028	U	0.059
2-Chloronaphthalene	mg/Kg	--	0.023	U	0.025	U	0.053
2-Chlorophenol	mg/Kg	2200	0.02	U	0.022	U	0.046
2-Methylnaphthalene	mg/Kg	2400	2.8		0.024	U	0.5
2-Methylphenol	mg/Kg	3400	0.025	U	0.027	U	0.11
2-Nitroaniline	mg/Kg	23000	0.024	U	0.026	U	0.055
2-Nitrophenol	mg/Kg	--	0.032	U	0.034	U	0.073
3,3-Dichlorobenzidine	mg/Kg	4	0.09	U	0.096	U	0.21
3-Nitroaniline	mg/Kg	--	0.034	U	0.037	U	0.079
4,6-Dinitro-2-methylphenol	mg/Kg	68	0.28	U	0.3	U	0.65
4-Bromophenylphenyl ether	mg/Kg	--	0.018	U	0.019	U	0.041
4-Chloro-3-methylphenol	mg/Kg	--	0.024	U	0.026	U	0.056
4-Chloroaniline	mg/Kg	--	0.034	U	0.037	U	0.079
4-Chlorophenyl phenyl ether	mg/Kg	--	0.02	U	0.021	U	0.045
4-Methylphenol	mg/Kg	340	0.025	U	0.027	U	0.18
4-Nitroaniline	mg/Kg	--	0.017	U	0.018	U	0.039
4-Nitrophenol	mg/Kg	--	0.031	U	0.033	U	0.072
Acenaphthene	mg/Kg	37000	0.94		0.022	U	0.21
Acenaphthylene	mg/Kg	300000	0.65		0.025	U	0.97
Acetophenone	mg/Kg	5	0.024	U	0.026	U	0.063
Anthracene	mg/Kg	30000	0.64		0.024	U	1.4
Atrazine	mg/Kg	2400	0.027	U	0.03	U	0.063
Benzaldehyde	mg/Kg	68000	0.042	U	0.046	U	0.097
Benzo(a)anthracene	mg/Kg	2	0.67		0.017	U	7.2
Benzo(a)pyrene	mg/Kg	0.2	0.53		0.013	U	7.6
Benzo(b)fluoranthene	mg/Kg	2	0.72		0.016	U	12
Benzo(ghi)perylene	mg/Kg	30000	0.33	J	0.015	U	6.4
Benzo(k)fluoranthene	mg/Kg	23	0.013	U	0.014	U	0.029

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-20 07/25/08 Sand Primary		BW-20 07/25/08 Sand Primary		BW-21 07/29/08 Fill Primary		BW-21 07/29/08 Mat Primary		BW-21 07/29/08 Sand Primary		
			Sample Depth		10.0-15.25 ft		24.0-26.0 ft		0.0-6.0 ft		8.0-10.5 ft		10.5-16.0 ft
			VOC Sample Depth		15.0-15.25 ft		25.0-26.0 ft		5.0-6.0 ft		10.0-10.5 ft		15.0-16.0 ft
Semivolatile Organics (Continued)													
Bis(2-chloroethoxy)methane	mg/Kg	--	0.019	U	0.02	U	0.043	U	0.025	U	0.02	U	
Bis(2-chloroethyl)ether	mg/Kg	2	0.009	U	0.0097	U	0.021	U	0.012	U	0.0094	U	
Bis(2-ethylhexyl)phthalate	mg/Kg	140	0.031	U	0.033	U	0.07	U	0.1	J	0.032	U	
Butyl benzyl phthalate	mg/Kg	14000	0.032	U	0.034	U	0.074	U	0.043	U	0.034	U	
Caprolactam	mg/Kg	340000	0.075	U	0.081	U	0.17	U	0.1	U	0.079	U	
Carbazole	mg/Kg	96	0.31	J	0.018	U	0.7	J	0.047	J	0.017	U	
Chrysene	mg/Kg	230	0.5		0.017	U	7		0.19	J	0.017	U	
Dibenzo(a,h)anthracene	mg/Kg	0.2	0.084	J	0.027	U	1.3		0.034	U	0.027	U	
Dibenzofuran	mg/Kg	--	0.9		0.024	U	0.43	J	0.03	U	0.023	U	
Diethyl phthalate	mg/Kg	550000	0.036	U	0.038	U	0.082	U	0.048	U	0.037	U	
Dimethyl phthalate	mg/Kg	--	0.023	U	0.024	U	0.052	U	0.03	U	0.024	U	
Di-n-butyl phthalate	mg/Kg	68000	0.066	U	0.071	U	0.15	U	0.089	U	0.069	U	
Di-n-octyl phthalate	mg/Kg	27000	0.028	U	0.03	U	0.064	U	0.038	U	0.029	U	
Fluoranthene	mg/Kg	24000	1.9		0.028	U	11		0.28	J	0.027	U	
Fluorene	mg/Kg	24000	1		0.021	U	0.38	J	0.026	U	0.02	U	
Hexachlorobenzene	mg/Kg	1	0.024	U	0.026	U	0.055	U	0.032	U	0.025	U	
Hexachlorobutadiene	mg/Kg	25	0.024	U	0.026	U	0.056	U	0.033	U	0.026	U	
Hexachlorocyclopentadiene	mg/Kg	110	0.018	U	0.02	U	0.042	U	0.025	U	0.019	U	
Hexachloroethane	mg/Kg	140	0.018	U	0.019	U	0.041	U	0.024	U	0.019	U	
Indeno(1,2,3-cd)pyrene	mg/Kg	2	0.29	J	0.015	U	4.9		0.053	J	0.015	U	
Isophorone	mg/Kg	2000	0.022	U	0.024	U	0.051	U	0.03	U	0.023	U	
Naphthalene	mg/Kg	17	13		0.021	U	1.4		0.057	J	0.02	U	
Nitrobenzene	mg/Kg	340	0.0099	U	0.011	U	0.023	U	0.013	U	0.01	U	
N-Nitrosodiphenylamine	mg/Kg	390	0.022	U	0.023	U	0.05	U	0.029	U	0.023	U	
N-Nitrosodipropylamine	mg/Kg	0.3	0.0098	U	0.01	U	0.022	U	0.013	U	0.01	U	
Pentachlorophenol	mg/Kg	10	0.03	U	0.032	U	0.068	U	0.04	U	0.031	U	
Phenanthrene	mg/Kg	300000	2.8		0.021	U	3.7		0.26	J	0.02	U	
Phenol	mg/Kg	210000	1.2		0.026	U	0.055	U	0.032	U	0.025	U	
Pyrene	mg/Kg	18000	1.1		0.026	U	8.4		0.22	J	0.026	U	
Polychlorinated Dioxins/Furans													
1,2,3,4,6,7,8-HxCDD	ug/Kg	--	0.048	J	--		0.015	J	0.00053	QJ	0.00025	QJ	
1,2,3,4,6,7,8-HxCDF	ug/Kg	--	17	B	--		0.33	B	0.0049	BJ	0.0022	BJ	
1,2,3,4,7,8,9-HxCDF	ug/Kg	--	0.42		--		0.018	J	0.00055	J	0.0063	U	
1,2,3,4,7,8-HxCDD	ug/Kg	--	0.0038	QJ	--		0.0048	J	0.00016	QJ	0.0063	U	
1,2,3,4,7,8-HxCDF	ug/Kg	--	4.3	Q	--		0.15	Q	0.0022	J	0.0072	QJ	
1,2,3,6,7,8-HxCDD	ug/Kg	--	0.017	J	--		0.0058	J	0.00023	J	0.0063	U	
1,2,3,6,7,8-HxCDF	ug/Kg	--	0.84	Q	--		0.022	J	0.00043	QJ	0.00015	QJ	
1,2,3,7,8,9-HxCDD	ug/Kg	--	0.0051	J	--		0.0081	QJ	0.00031	QJ	0.0063	U	
1,2,3,7,8,9-HxCDF	ug/Kg	--	0.0017	J	--		0.0083	J	0.00035	QJ	0.0063	U	
1,2,3,7,8-PCDD	ug/Kg	--	0.0042	QJ	--		0.0054	J	0.00039	QJ	0.0063	U	
1,2,3,7,8-PCDF	ug/Kg	--	0.05	QJ	--		0.0069	J	0.00015	QJ	0.0063	U	
2,3,4,6,7,8-HxCDF	ug/Kg	--	0.17		--		0.0095	J	0.00027	QJ	0.000091	QJ	
2,3,4,7,8-PCDF	ug/Kg	--	0.32		--		0.016	J	0.00029	QJ	0.0063	U	
2,3,7,8-TCDD	ug/Kg	--	0.0016	J	--		0.014	U	0.0016	U	0.0013	U	
2,3,7,8-TCDF	ug/Kg	--	0.0054	QJ	--		0.013	QJ	0.0002	QJ	0.0013	U	
OCDD	ug/Kg	--	0.2	B	--		0.076	BJ	0.0036	BJ	0.0014	BJ	
OCDF	ug/Kg	--	45	B	--		0.67	B	0.013	BJ	0.0055	BJ	
Total HpCDD	ug/Kg	--	0.098	J	--		0.024	J	0.00075	QJ	0.00049	JQ	
Total HpCDF	ug/Kg	--	18	B	--		0.38	B	0.0058	JB	0.0024	QJB	
Total HxCDD	ug/Kg	--	0.084	QJ	--		0.028	QJ	0.0007	QJ	0.00025	J	
Total HxCDF	ug/Kg	--	9.7	Q	--		0.28	Q	0.0047	QJ	0.0014	JQ	
Total PeCDD	ug/Kg	--	0.044	QJ	--		0.02	QJ	0.00039	QJ	0.0063	U	
Total PeCDF	ug/Kg	--	3.7	Q	--		0.12	QJ	0.0018	QJ	0.0063	U	
Total TCDD	ug/Kg	--	0.035	Q	--		0.016	JQ	0.00043	QJ	0.0013	U	
Total TCDF	ug/Kg	--	1.7	Q	--		0.1	Q	0.00057	QJ	0.0013	U	
Polychlorinated Dioxins/Furans (2,3,7,8 Equivalents)													
1,2,3,4,6,7,8-HxCDD	0.01	--	0.00048		--		0.00015		--		--		
1,2,3,4,6,7,8-HxCDF	0.01	--	0.17		--		0.0033		0.000049		0.000022		
1,2,3,4,7,8,9-HxCDF	0.01	--	0.0042		--		0.00018		0.0000055		--		
1,2,3,4,7,8-HxCDD	0.10	--	--		--		0.00048		--				

TABLE 1

ANALYTICAL RESULTS
BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY

Constituent of Interest	Units	Criterion ⁽¹⁾	BW-20 07/25/08 Sand Primary	BW-20 07/25/08 Sand Primary	BW-21 07/29/08 Fill Primary	BW-21 07/29/08 Mat Primary	BW-21 07/29/08 Sand Primary
Sample Depth			10.0-15.25 ft	24.0-26.0 ft	0.0-6.0 ft	8.0-10.5 ft	10.5-16.0 ft
VOC Sample Depth			15.0-15.25 ft	25.0-26.0 ft	5.0-6.0 ft	10.0-10.5 ft	15.0-16.0 ft
Metals							
Aluminum	mg/Kg	--	3140	12600		3080	J 1640 J 4150 J
Antimony	mg/Kg	450	0.11	U 0.12 U	0.13	U 0.15 U 0.12 U	
Arsenic	mg/Kg	19	1.4	7.7	5.8	0.37 U 2	
Barium	mg/Kg	59000	12.2	B 73.4	39.3	12.6 B 17.4 B	
Beryllium	mg/Kg	140	0.32	B 0.84	0.49	B 0.13 B 0.4 B	
Cadmium	mg/Kg	78	0.12	B 0.51 B	0.065	U 0.076 U 0.059 U	
Calcium	mg/Kg	--	584	B 5220	1690	2150	658
Chromium ⁽³⁾	mg/Kg	120000	10.4	21.2	1570	33.9	13.3
Chromium (Hexavalent) ⁽³⁾	mg/Kg	20	0.4	U 0.4 U	99.1	0.4 U 0.4 U	
Cobalt	mg/Kg	590	3.3	B 12.4	3.9	B 0.26 B 3.2 B	
Copper	mg/Kg	45000	5.1	25.3	46.2	2.3 B 6.5	
Iron	mg/Kg	--	9710	J 30900 J	10700	1570	10700
Lead	mg/Kg	800	2.8	12.2	69.1	J 2.6 J 3.2 J	
Magnesium	mg/Kg	--	1180	7610	949	1940	1360
Manganese	mg/Kg	5900	74.9	J 548 J	119	51.7	56.7
Mercury	mg/Kg	65	0.0085	U 0.022 B	0.39	0.012 U 0.009 U	
Nickel	mg/Kg	23000	7.5	26.8	11.5	J 1.3 BJ 6.9 J	
Potassium	mg/Kg	--	315	B 1650	231	B 179 B 394 B	
Selenium	mg/Kg	5700	0.35	U 0.37 U	0.92	0.47 U 0.36 U	
Silver	mg/Kg	5700	0.045	U 0.18 B	0.12	B 0.06 U 0.047 U	
Sodium	mg/Kg	--	505	B 581 B	202	B 2190	583 B
Thallium	mg/Kg	79	0.39	U 0.64 B	0.44	U 0.52 U 0.41 U	
Vanadium	mg/Kg	1100	12.6	26.5	55.3	3.6 B 15.5	
Zinc	mg/Kg	110000	20.6	64.6	31.1	J 3.4 J 18.6 J	
Toxicity Characteristic Leaching Procedure⁽⁴⁾							
1,1-Dichloroethene	mg/L	0.7	0.035	U --	0.0087	U 0.0087 U 0.0087 U	
1,2-Dichloroethane	mg/L	0.5	0.026	U --	0.0064	U 0.0064 U 0.0064 U	
1,4-Dichlorobenzene	mg/L	7.5	25	--	0.0046	U 0.0046 U 0.0046 U	
2,4,5-Trichlorophenol	mg/L	400	0.0041	U --	0.0041	U 0.0041 U 0.0041 U	
2,4,6-Trichlorophenol	mg/L	2	0.0026	U --	0.0026	U 0.0026 U 0.0026 U	
2,4-Dinitrotoluene	mg/L	0.13	0.0028	U --	0.0028	U 0.0028 U 0.0028 U	
2-Butanone	mg/L	200	0.029	U --	0.0073	U 0.0073 U 0.0073 U	
Benzene	mg/L	0.5	0.046	J --	0.0081	U 0.0081 U 0.0081 U	
Carbon Tetrachloride	mg/L	0.5	0.037	U --	0.0091	U 0.0091 U 0.0091 U	
Chlorobenzene	mg/L	100	0.83	--	0.0071	U 0.0071 U 0.0071 U	
Chloroform	mg/L	6	0.031	U --	0.0078	U 0.0078 U 0.0078 U	
Cresols	mg/L	200	0.45	--	0.0089	U 0.0089 U 0.0089 U	
Hexachlorobenzene	mg/L	0.13	0.0049	U --	0.0049	U 0.0049 U 0.0049 U	
Hexachlorobutadiene	mg/L	0.5	0.0033	U --	0.0033	U 0.0033 U 0.0033 U	
Hexachloroethane	mg/L	3	0.0036	U --	0.0036	U 0.0036 U 0.0036 U	
Nitrobenzene	mg/L	2	0.0056	U --	0.0056	U 0.0056 U 0.0056 U	
Pentachlorophenol	mg/L	100	0.005	U --	0.005	U 0.005 U 0.005 U	
Pyridine	mg/L	5	0.011	U --	0.011	U 0.011 U 0.011 U	
Tetrachloroethene	mg/L	0.7	0.023	U --	0.0057	U 0.0057 U 0.0057 U	
Trichloroethene	mg/L	0.5	0.035	U --	0.0088	U 0.0088 U 0.0088 U	
Vinyl chloride	mg/L	0.2	0.038	U --	0.0094	U 0.0094 U 0.0094 U	
Arsenic	mg/L	5	0.13	B --	0.18	B 0.16 B 0.2 B	
Barium	mg/L	100	0.14	BJ --	0.21	BJ 0.055 BJ 0.2 BJ	
Cadmium	mg/L	1	0.0012	U --	0.0012	U 0.0012 U 0.0012 U	
Chromium	mg/L	5	0.017	B --	0.52	0.0052 B 0.0055 B	
Lead	mg/L	5	0.013	U --	0.032	B 0.013 U 0.013 U	
Mercury	mg/L	0.2	0.000055	U --	0.000055	U 0.000055 U 0.000055 U	
Selenium	mg/L	1	0.015	U --	0.015	U 0.015 U 0.015 U	
Silver	mg/L	5	0.0025	U --	0.0025	U 0.0025 U 0.0025 U	
RCRA Characteristics and Indicators							
Corrosivity	SU	2< pH <12.5	8.16	--	7.77	7.42	8.2
Cyanide	mg/Kg	23000	0.13	B --	0.95	J 0.27 BJ 0.23 BJ	
Total Sulfide (Reactivity)	mg/Kg	--	14.7	U --	77.6	19.9 U 15.5 U	
Ignitability	None	--	No	--	No	No No	
Oxidation Reduction Potential	mV	--	442	444	456	470	469
Percent Solids	%	--	83.2	77.3	72.2	61.6	79.1

TABLE 1

ANALYTICAL RESULTS

**BARRIER WALL ALIGNMENT SOIL SAMPLES
SCCC BARRIER WALL - PORTION ON SEABOARD
KEARNY, NEW JERSEY**

Notes:

1. Criteria are the NJDEP Non-Residential Direct Contact Soil Remediation Standards (online at www.nj.gov/dep/srp/regs/rs/rs_appendix1.pdf) unless noted otherwise
2. The 1 ug/kg benchmark for 2,3,7,8-TCDD equivalents is the United States Environmental Protection Agency residential guideline per OSWER Directive 9200.4-26
3. Nonpromulgated criteria for total (trivalent) and hexavalent chromium determined by chromium workgroup (www.state.nj.us/dep/srp/guidance/rs/chrome_criteria.pdf).
4. Toxicity Characteristic Leaching Procedure limits as specified in 40 Code of Federal Regulations 261.24 - available at electronic CFR website (ecfr.gpoaccess.gov).

Exceedances are shown in bold, shaded typeface. Data qualifiers are as follows:

- B - Organic results. Analyte detected in associated method blank
B - Inorganic results. Result is an estimate. Quantitation between the detection limit and the reporting limit.
C - Presence of coeluting isomer is evident based on appearance of peak shoulder.
E - Organic results. Result is an estimated concentration. Outside linear calibration range.
E - Inorganic results. Serial dilution was outside quality control limits for this analyte.
J - Organic results. Result is an estimate. Quantitated between the detection limit and the reporting limit.
J - Inorganic results. Result is an estimated concentration. Quantitated below the reporting limit.
U - Not detected at the reporting limit indicated.
Q - One or more quality control criteria for identification not attained. Value is an Estimated Maximum Possible Concentration. Analyte may be present below the quantitation limit indicated.
-- - Not analyzed.

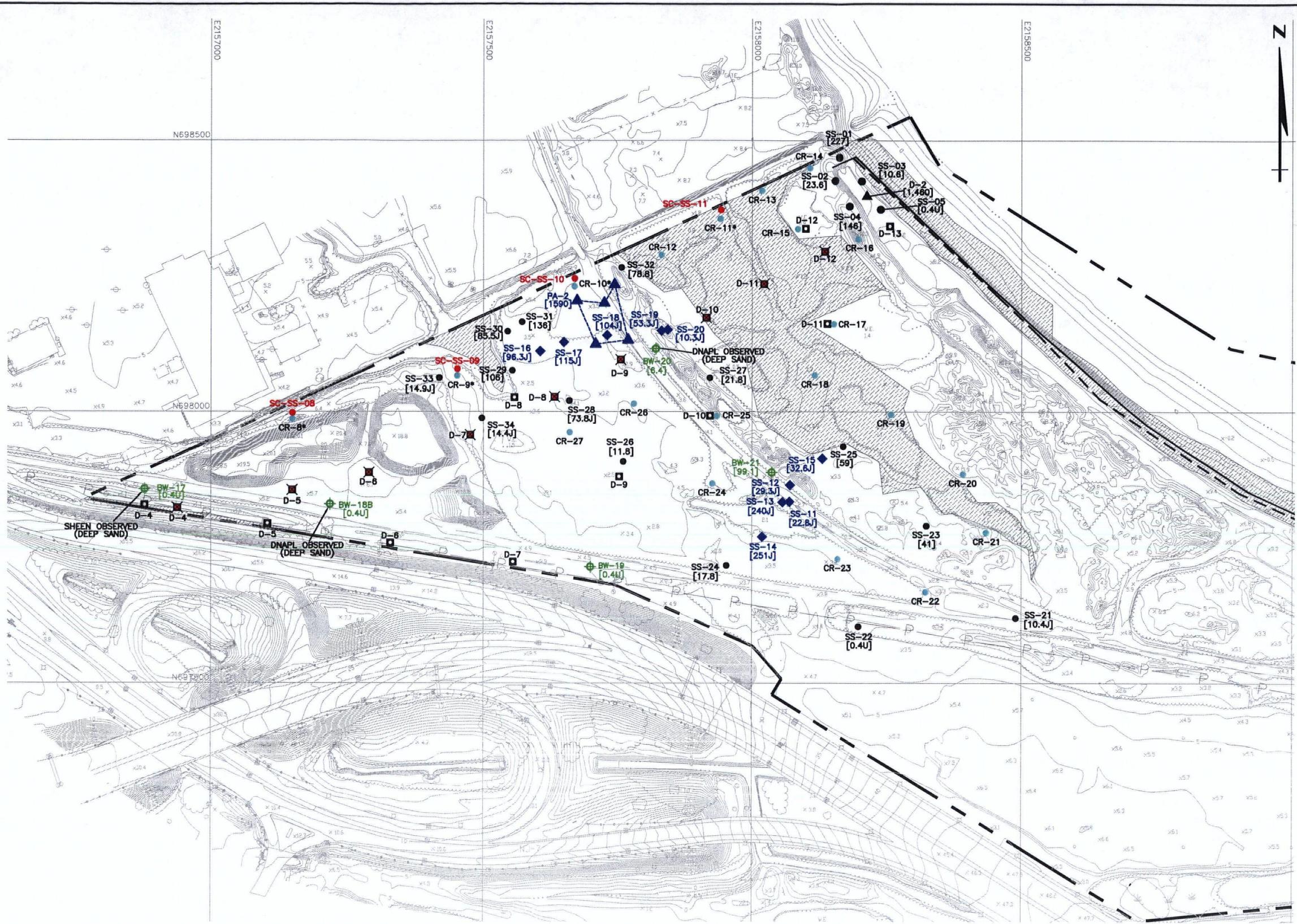
ATTACHMENT B
SEABOARD CHROMIUM DELINEATION DATA

Attachment B
Chromium Delineation – Western Area
Former Koppers Seaboard Site
Kearny, New Jersey

Boring ID	Sample ID	Lab Sample ID	Sampling Date	Sample Interval	Elevation (ft-msl)		Chromium (mg/Kg)		Eh (mV)	pH (std units)
					Ground Surface	Top of Interval	Hexavalent	Total		
SS-01	SS-01-SD3 0-0.5	V042, 923499	5/29/2008	0-0.5	2.42	2.42	227	12000 J	467	7.37
SS-01	SS-01-SD3 2-2.5	V042, 923501	5/29/2008	2-2.5	2.42	0.42	167	3050 J	544	7.44
SS-01	SS-01-SD3 4.5-5	V042, 923502	5/29/2008	4.5-5	2.42	-2.08	179	553	196	7.9
SS-01	SS-01-SD3 5-5.5	V042, 923503	5/29/2008	5-5.5	2.42	-2.58	0.4 U	36.4	235	7.01
SS-02	SS-02-SD3 0-0.5	V042, 923494	5/29/2008	0-0.5	3.25	3.25	23.6	219 J	454	8.27
SS-02	SS-02-SD3 1-1.5	V042, 923495	5/29/2008	1-1.5	3.25	2.25	15.3	249	182	7.56
SS-02	SS-02-SD3 2-2.5	V042, 923496	5/29/2008	2-2.5	3.25	1.25	7	142 J	451	6.55
SS-03	SS-03-SD3 0-0.5	V042, 923484	5/29/2008	0-0.5	10.06	10.06	10.6	115 J	487	8.22
SS-03	SS-03-SD3 5-5.5	V042, 923486	5/29/2008	5-5.5	10.6	5.6	0.4 U	17.7 J	486	8.4
SS-04	SS-04-SD3 0-0.5	V042, 923489	5/29/2008	0-0.5	4.41	4.41	146	79.2 J	440	7.02
SS-04	SS-04-SD3 1-1.5	V042, 923490	5/29/2008	1-1.5	4.41	3.41	41.4	207	198	6.49
SS-04	SS-04-SD3 2-2.5	V042, 923491	5/29/2008	2-2.5	4.41	2.41	0.4 U	5.5 J	452	8.89
SS-05	SS-05-SD3 0-0.5	V042, 923478	5/29/2008	0-0.5	7.83	7.83	0.4 U	28.4 J	381	8.79
SS-05	SS-05-SD3 6.5-7	V042, 923481	5/29/2008	6.5-7	7.83	1.33	0.4 U	4.3 J	492	8.57
SS-11	SS-11-SD 1/2 0-6	T232, 912905	4/15/2008	0-0.5	3.28	3.11	22.8 J	2080 J	521	8.17
SS-11	SS-11-SD-1/2 12-18	T232, 912906	4/15/2008	1-1.5	3.28	2.11	4.9 J	81.1 J	484	8.43
SS-11	SS-11-SD 1/2 24-30	T232, 912907	4/15/2008	2-2.5	3.28	1.11	103 J	1610 J	353	8.84
SS-12	SS-12-SD 1/2 0-6	T232, 912908	4/15/2008	0-0.5	3.52	3.52	29.3 J	1090 J	450	6.86
SS-12	SS-12-SD 1/2 12-18	T232, 912909	4/15/2008	1-1.5	3.52	2.52	7 J	46.2 J	347	7.65
SS-12	SS-12-SD 1/2 24-30	T232, 912910	4/15/2008	2-2.5	3.52	1.52	259 J	6010 J	505	7.93
SS-13	SS-13-SD 1/2 0-6	T232, 912911	4/15/2008	0-0.5	2.31	2.31	240 J	4900 J	390	7.65
SS-13	SS-13-SD 1/2 12-18	T232, 912912	4/15/2008	1-1.5	2.31	1.31	38.3 J	3980 J	322	8.97
SS-13	SS-13-SD 1/2 24-30	T232, 912913	4/15/2008	2-2.5	2.31	0.31	166 J	6400 J	428	8.67
SS-14	SS-14-SD 1/2 0-6	T232, 912914	4/15/2008	0-0.5	2.47	2.47	251 J	6500 J	--	--
SS-14	SS-14-SD 1/2 12-18	T232, 912915	4/15/2008	1-1.5	2.47	1.47	4,900	12200 J	244	11.8
SS-14	SS-14-SD 1/2 24-30	T232, 912916	4/15/2008	2-2.5	2.47	0.47	5350 J	9720 J	299	11.89
SS-15	SS-15-SD 1/2 0-6	T232, 912919	4/15/2008	0-0.5	3.32	3.32	32.6 J	536 J	416	6.55
SS-15	SS-15-SD 1/2 12-18	T232, 912920	4/15/2008	1-1.5	3.32	2.32	7.9 J	61.1 J	424	7.24
SS-16	SS-16-SD 1/2 0-6	T232, 912922	4/15/2008	0-0.5	3.39	3.39	96.3	2,090	475	7.71
SS-16	SS-16-SD 1/2 12-16	T232, 912923	4/15/2008	1-1.4	3.39	2.39	303 J	6910 J	428	8.38
SS-16	SS-16-SD 1/2 24-28	T232, 912924	4/15/2008	2-2.4	3.39	1.39	11000 J	17200 J	286	11.52
SS-17	SS-17-SD 1/2 0-6	T232, 912925	4/15/2008	0-0.5	3.76	3.76	115 J	3300 J	481	7.84
SS-17	SS-17-SD 1/2 12-18	T232, 912926	4/15/2008	1-1.5	3.76	2.76	540 J	7050 J	332	10.07
SS-17	SS-17-SD 1/2 24-30	T232, 912927	4/15/2008	2-2.5	3.76	1.76	96.1 J	8860 J	339	9.06
SS-18	SS-18-SD 1/2 0-6	T232, 912928	4/15/2008	0-0.5	3.81	3.81	104 J	3170 J	415	7.90
SS-18	SS-18-SD 1/2 12-18	T232, 912929	4/15/2008	1-1.5	3.81	2.81	198 J	4570 J	391	10.16
SS-18	SS-18-SD 1/2 24-30	T232, 912930	4/15/2008	2-2.5	3.81	1.81	785 J	4800 J	273	11.50
SS-19	SS-19-SD 1/2 0-6	T232, 912931	4/15/2008	0-0.5	3.07	3.07	53.3 J	600 J	438	6.08
SS-19	SS-19-SD 1/2 12-18	T232, 912932	4/15/2008	1-1.5	3.07	2.07	26 J	318 J	312	7.36
SS-19	SS-19-SD 1/2 24-30	T232, 912933	4/15/2008	2-2.5	3.07	1.07	11.5 J	146 J	419	4.03
SS-20	SS-20-SD 1/2 0-6	T232, 912934	4/15/2008	0-0.5	2.73	2.73	10.3 J	96.6 J	438	6.44
SS-21	SS-21-SD 1/2 0-0.5	U958, 922988	5/28/2008	0-0.5	2.77	2.77	10.4 J	194 J	466	7.67
SS-21	SS-21-SD 1/2 2-2.5	U958, 922990	5/28/2008	2-2.5	2.77	0.77	0.4 U	32.7 J	368	6.80
SS-21	SS-21-SD 1/2 4.5-5	U958, 922991	5/28/2008	4.5-5	2.77	-1.73	0.4 U	32.9 U	454	7.36
SS-22	SS-22-SD 1/2 0-0.5	U958, 923001	5/28/2008	0-0.5	3.52	3.52	0.4 U	49.8 U	410	5.99
SS-22	SS-22-SD 1/2 1.5-2	U958, 923003	5/28/2008	1.5-2	3.52	2.02	9.5	43 J	399	7.81
SS-22	SS-22-SD 1/2 3.5-4	U958, 923004	5/28/2008	3.5-4	3.52	0.02	0.4 U	5.6 J	437	7.82
SS-23	SS-23-SD 1/2 0-0.5	U958, 923007	5/28/2008	0-0.5	3.19	3.19	41	388 J	317	6.26
SS-23	SS-23-SD 1/2 1-1.5	U958, 923008	5/28/2008	1-1.5	3.19	2.19	3.3	29.3	291	8.21
SS-23	SS-23-SD 1/2 2-2.5	U958, 923009	5/28/2008	2-2.5	3.19	1.19	3.5	18.8	326	7.29
SS-23	SS-23-SD 1/2 4-4.5	U958, 923010	5/28/2008	4-4.5	3.19	-0.81	5	45.2 J	362	7.60
SS-24	SS-24-SD 1/2 0-0.5	U958, 922994	5/28/2008	0-0.5	2.66	2.66	17.8	259 J	471	6.99
SS-24	SS-24-SD 1/2 2-2.5	U958, 922996	5/28/2008	2-2.5	2.66	0.66	0.4 U	12.8 J	448	7.89
SS-24	SS-24-SD 1/2 6-6.5	U958, 922998	5/28/2008	6-6.5	2.66	-3.34	0.4 U	16 J	381	7.38
SS-25	SS-25-SD 1/2 0-0.5	U958, 923014	5/28/2008	0-0.5	2.36	2.36	59	753 J	397	6.73
SS-25	SS-25-SD 1/2 1-1.5	U958, 923015	5/28/2							

ATTACHMENT C

FIGURE A



LEGEND

- | | |
|--------|---|
| | PROPERTY BOUNDARY |
| | EXISTING ACCESS ROAD |
| | EXISTING FENCE |
| | EXISTING UTILITY POLES |
| | EXISTING GROUND SURFACE ELEVATION CONTOURS |
| | EXISTING VEGETATION |
| | EXISTING STREAM, RUNOFF CONTAINMENT AND RIVER BANK |
| x 4.1 | EXISTING GROUND SURFACE ELEVATION (FEET-MSL) |
| | EXISTING STEEL SHEET PILE WALL |
| | EXISTING "PDM KEY" LOCATION |
| P — P | EXISTING ELECTRICAL DISTRIBUTION LINE |
| | 2008 CR(V) DELINEATION SAMPLE LOCATION (0-30" OR 0-6" BGS) |
| | 1986 PRELIMINARY ASSESSMENT GRAB SAMPLE LOCATION |
| | 1986 PRELIMINARY ASSESSMENT COMPOSITE SAMPLE LOCATION |
| | SURVEYED SOIL BORING OR SURFACE SAMPLE LOCATIONS (APRIL 15, 2008) |
| | PROPOSED DELINEATION BORING/ SURFACE SOIL CONTINGENCY SAMPLE LOCATION (WILL NOT BE COMPLETED) |
| D-6 | REVISED DNAPL DELINEATION BORING LOCATION |
| | CHROMIUM DELINEATION BORING PLANNED (3 SAMPLE DEPTHS) |
| | SURFACE SOIL SAMPLE LOCATION |
| | SCCC IRAW BARRIER WALL ALIGNMENT BORINGS (SAMPLES ARE VERTICAL COMPOSITES OF THE FILL LAYER) |
| [0.4U] | HEXAVALENT CHROMIUM CONCENTRATION (MG/KG). U - NOT DETECTED AT THE REPORTING LIMIT INDICATED J - VALUE IS AN ESTIMATE |

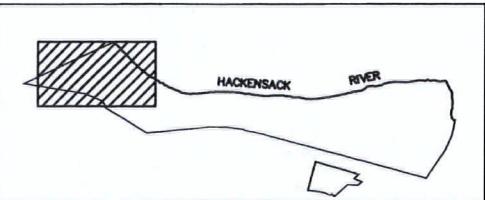
0 200 400 FEET

WN: SCC DATE: 11/05/08
KD: RJH DATE: 11/05/08
PD: JSZ DATE: 11/05/08
ALE: AS SHOWN

KEY ENVIRONMENTAL INCORPORATED

ESTERN AREA ADDITIONAL CHROMIUM DELINEATION
RAWPA SUPPLEMENT
FORMER KOPPERS SEABOARD SITE
KEARNY, NEW JERSEY

WESTERN AREA BORING RESULTS AND CrVI DELINEATION	PROJECT NO: 08-613 FIGURE A
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LOCATION KEY

	10/03/08	WORK PLAN BORING LOCATION INCLUDING REVISED PER 00Q	JAB
REV #	DATE	DESCRIPTION	APPENDIX

REFERENCE:

1. EXISTING GROUND SURFACE ELEVATION CONTOURS PER AIR SURVEY, DULLES, VIRGINIA, APRIL 14, 2001. HORIZONTAL REFERENCE NEW JERSEY STATE PLANE COORDINATES (NAD 1927). VERTICAL REFERENCE NATIONAL GEODETIC VERTICAL DATUM (NGVD 1929).
2. EXISTING WETLANDS PER WETLAND DELINEATION BY PAULUS, SOKOWSKI, AND SARTOR, CONSULTING ENGINEERS, FOR HUDSON COUNTY IMPROVEMENT AUTHORITY MAY 17, 2001 ACCEPTED BY THE ARMY CORPS OF ENGINEERS, JULY 10, 2001. PLEASE NOTE THAT WETLAND #10 APPEARS TO EXTEND UPLAND OF THE STEEL SHEET PILE WALL WHICH MAY BE IN ERROR.
3. PROPERTY BOUNDARY PER PAULUS, SOKOLOWSKI, SARTOR, CONSULTING ENGINEERS, AUGUST 1995.
4. EXISTING SLURRY WALL LOCATION AND STEEL SHEET PILE WALL LOCATION PER SLURRY WALL AND SHEET PILE WALL LOCATION MAP BY CASEY & KELLER INC., DATED 12/12/98, LAST REVISED 1/5/2000
5. EXISTING GROUNDWATER MONITORING WELLS ARE NOT SHOWN.